



Volume 1

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How Did We Emerge?

From Creation

Via The Big Bang

To Mankind

In Anthroposophie And Sciences

This book consists of five parts :

Part 1 Prearrangements

This book Calls Upon ...

In Short !

- A. How Did We Emerge ?
- B. Spiritual Aspects
- C. Scientific Aspects

Part 2 Core Part

- D. Mankind and Matter
 - 1. *The Solar Cosmos Coming to Life*
 - 2. *During EARTH : An Overview*
 - 3. *Geological Layers Older Than Fossils*
 - 4. *Dating Clues by D. Bosse*
 - 5. *During EARTH : Details*
 - 6. *Time Lines*
 - 7. *Did Lemuria or Atlantis Ever Exist At All ?*
 - 8. *Our Remote Past And Remote Future*

Part 3 Aftermath

- E. How the Brain and Thinking Evolved
- F. How Consciousness and Soul Aspects Evolved
- G. Conclusions

Part 4 Appendixes

- H. Aspects of Brain Physiology
- I. Graphs, Diagrams, Spreadsheets, and Cues
 - 1. *Diagram Excerpt : Comparative Chronological Table by D. Bosse*
 - 2. *The 7 Planetary Developmental States of the Solar Cosmos*
 - 3. *The Solar Cosmos Arising : Sequences*
 - 4. *The Solar Cosmos Arising : Tasks*
 - 5. *Spreadsheet Supplements*
 - 6. *Ages by Cues*

Part 5 Lexical Part

- J. References
 - 1. *Rudolf Steiner's Works Quoted Here*
 - 2. *Glossary*
 - 3. *Numbers and Counting*

Part 5

Lexical Part

Contents

J. Lexical Part.....	<u>6</u>
J.1. Rudolf Steiner’s Work Quoted.....	<u>6</u>
<i>Books.....</i>	<u>6</u>
<i>Lecture Courses.....</i>	<u>6</u>
<i>Selected Texts of R. Steiner's.....</i>	<u>10</u>
<i>Other Steiner Works Available in English.....</i>	<u>10</u>
<i>Selected Texts Available in English</i>	<u>14</u>
<i>Selected Texts Available in English : Compiled by</i>	<u>14</u>
<i>Selected Texts Available in English : "From the Works of Rudolf Steiner".....</i>	<u>14</u>
J.2. Glossary.....	<u>15</u>
A.....	<u>15</u>
<i>Fig. J.2.a Asteroid belt [Wikipedia.de].....</i>	<u>17</u>
B.....	<u>18</u>
C.....	<u>18</u>
<i>Fig. J.2.C Chacras [Wikipedia.de].....</i>	<u>18</u>
D.....	<u>21</u>
E.....	<u>22</u>
F.....	<u>25</u>
G.....	<u>25</u>
H.....	<u>26</u>
I.....	<u>27</u>
J.....	<u>28</u>
K.....	<u>29</u>
L.....	<u>29</u>
M.....	<u>30</u>
N.....	<u>32</u>
O.....	<u>33</u>
<i>Fig. J.2.O Oort cloud [Wikipedia.de].....</i>	<u>34</u>
P.....	<u>34</u>
Q.....	<u>37</u>
R.....	<u>37</u>
S.....	<u>38</u>
T.....	<u>42</u>
U.....	<u>43</u>
V.....	<u>43</u>
W.....	<u>44</u>
Y.....	<u>44</u>
Z.....	<u>44</u>
J.3. Numbers and Enumerations.....	<u>45</u>
1 st	<u>45</u>
2 nd	<u>45</u>
3 rd	<u>46</u>
4 th	<u>47</u>

Contents

5 th	47
6 th.....	48
7 th.....	48
8 th.....	50
9 th.....	53
10 th.....	53
12 th.....	53
13 th and more.....	54

J. Lexical Part

J.1. Rudolf Steiner's Work Quoted

Mostly from Rudolf Steiner *Gesamtausgabe* (= CW = Collected Works)

[Volume available in English] {Title translated by us}

(*Italics* : year of the original publication ; and of the edition in German used here ; TB = pocket book in German)

Books.

- 1 *J.W. Goethe: Naturwissenschaftliche Schriften. (1884, 1887, 1890, 1897 ; 1982).*
[Goethean Science. Introductions to Goethe's Natural-Scientific Writings]
[Nature's Open Secret. Introductions to Goethe's Scientific Writings]
- 2 *Grundlinien einer Erkenntnistheorie der Goetheschen Weltanschauung mit besonderer Rücksicht auf Schiller. (1886 ; TB 629 : 1988)..*
[Goethe's Theory of Knowledge. With Special Reference to Schiller]
[Goethe's Theory of Knowledge. An Outline of the Epistemology of His Worldview]
[The Science of Knowing. Outline of an Epistemology Implicit in the Goethean World View]
- 4 *Die Philosophie der Freiheit. Grundzüge einer modernen Weltanschauung. (1894 ; TB 627 : 1962)..*
[The Philosophy of Freedom. The Basis for a Modern World Conception]
[The Philosophy of Spiritual Activity. Fundamental Features of a Modern Worldview: Results of Soul Observation According to the Natural-scientific Method]
[The Essential Philosophy of Freedom]
[Intuitive Thinking As a Spiritual Path: A Philosophy of Freedom]
- 6 *Goethes Weltanschauung. (1897).* [Goethe's World View]
- 8 *Das Christentum als mystische Tatsache und die Mysterien des Altertums. (1902)..*
[Christianity as Mystical Fact][Christianity as Mystical Fact and the Mysteries of Antiquity]
- 10 *Wie erlangt man Erkenntnisse der höheren Welten ? (1904/05 ; TB 600 : 1987)..*
[Knowledge of the Higher Worlds and Its Attainment]
[Knowledge of the Higher Worlds. How Is It Attained?]
[Knowledge of the Higher Worlds. How Is It Achieved?]
[How to Know Higher Worlds: a Modern Path of Initiation]
[The Way Of Initiation: Or, How To Attain Knowledge Of The Higher Worlds]
[The Way of Initiation: How to Attain Knowledge of the Higher Worlds: A Modern Edition]
- 11 *Aus der Akasha-Chronik. (1904-8 ; 1969 ; TB 616 : 1990)..*
[Cosmic Memory : The Story of Atlantis, Lemuria, and the Division of the Sexes]
- 13 *Die Geheimwissenschaft im Umriss. (1909/10 ; TB 601 : 1989 and 1993)..* [Occult Science. An Outline]
[An Outline of Spiritual Science] [An Outline of Esoteric Science] [An Outline of Occult Science]
[The Outline of Occult Science]
- 26 *Anthroposophische Leitsätze. (1924/25) from : Für alle Menschen. {For Everybody} book 2 (2015)..*
[Anthroposophic Leading Thoughts. Anthroposophy as a Path of Knowledge: The Michael Mystery]
- Part : [The Michael Mystery] [The Archangel Michael: His Mission and Ours]
- 34 *Luzifer – Gnosis. Grundlegende Aufsätze zur Anthroposophie und Berichte aus den Zeitschriften «Luzifer» und «Luzifer-Gnosis». 1903 – 1908.* [Educating Children Today]
- 40 *Wahrpruchworte.* [Truth-Wrought Words. And Other Verses and Prose Passages].
- Part : *Seelenkalender* : [The Calendar of the Soul]
[Calendar of the Soul. The Year Participated]
[The Illustrated Calendar of the Soul. Meditations for the Yearly Cycle]
[Weekly Meditations. Rudolf Steiner's "Calendar of the Soul" with Accompanying Reflections]

Lecture Courses.

- 60 *Antworten der Geisteswissenschaft auf die großen Fragen des Daseins. (1911 ; 1983).* [Turning Points in Spiritual History. Zarathustra, Hermes, Moses, Elijah, Buddha, Christ. (CW 60 , 61)]
- 63 *Geisteswissenschaft als Lebensgut.* {Spiritual Science As a Value in Life} (1914).
- 73 *Die Ergänzung heutiger Wissenschaften durch Anthroposophie.* {Anthroposophy Augmenting Today's Sciences} (1917 ; TB 664 : 1988)..
- 92 *Die okkulten Wahrheiten alter Mythen und Sagen. Griechische und germanische Mythologie. Über Richard Wagners Musikdramen. (1904, 1905, and 1907).* [The Occult Truths of Myths and Legends. Greek and Germanic Mythology: Richard Wagner in the Light of Spiritual Science]

- 93 *Die Tempellegende und die Goldene Legende als symbolischer Ausdruck vergangener und zukünftiger Entwicklungsgeheimnisse des Menschen. Aus dem Inhalt der Esoterischen Schule. (1904 – 1906, in German out of print). [The Temple Legend. Freemasonry and Related Occult Movements: From the Contents of the Esoteric School]*
- 94 *Kosmogonie : Zusammenfassung. Populärer Okkultismus. Das Johannes-Evangelium. Die Theosophie anhand des Johannes-Evangeliums : Notizen. (1907 ; 1979). [An Esoteric Cosmology. Evolution, Christ & Modern Spirituality] [Reading the Pictures of the Apocalypse. (CW 104a, 94)]*
- 95 *Vor dem Tore der Theosophie. (1906). [Founding a Science of the Spirit]*
- 96 *Ursprungsimpulse der Geisteswissenschaft. Christliche Esoterik im Lichte neuer Geist-Erkenntnis. {Original Impulses of Spiritual Science. Christian Esoteric in the Light of New Spiritual Recognition} (1907 ; 1974).*
- 97 *Das christliche Mysterium. {The Christian Mystery} (1907, in German out of print).*
- 98 *Natur- und Geistwesen - ihr Wirken in unserer sichtbaren Welt. (1907-8). [Nature and Spirit Beings. Their Activity in Our Visible World] [The Mysteries. A Poem for Christmas and Easter by W. J. v. Goethe]*
- 99 *Die Theosophie des Rosenkreuzers. (1907 ; TB 643 : 2005).. [Rosicrucian Wisdom : An Introduction]*
- 100 *Menschheitsentwicklung und Christus-Erkenntnis. (1907). [True Knowledge of the Christ. Theosophy and Rosicrucianism - the Gospel of John]*
- 101 *Mythen und Sagen. Okkulte Zeichen und Symbole. {Myths and Sagas. Occult Signets and Symbols} (1907 ; 1987)..*
- 103 *Das Johannes-Evangelium. (1908 ; TB 644 : 2005).. [The Gospel of John]*
- 104 *Die Apokalypse des Johannes. (1908 ; TB 672 : 1995).. [The Apocalypse of John] [The Apocalypse of St. John. Lectures on the Book of Revelation]*
- 104 a *Aus der Bilderschrift der Apokalypse des Johannes. (1907 f ; 1991). [Reading the Pictures of the Apocalypse. (CW 104a, 94)]*
- 105 *Welt, Erde und Mensch, deren Wesen und Entwicklung sowie ihre Spiegelung in dem Zusammenhang zwischen ägyptischem Mythos und gegenwärtiger Kultur. (1908 ; 1974). [Universe, Earth, Human Being. Their Relationship to Egyptian Myths and Modern Civilization]*
- 106 *Ägyptische Mythen und Mysterien im Verhältnis zu den wirkenden Geisteskräften der Gegenwart. (1908 ; 1992). [Egyptian Myths and Mysteries]*
- 107 *Geisteswissenschaftliche Menschenkunde. (1908 – 1909 ; 1973). [Disease, Karma, and Healing: Spiritual-Scientific Enquiries into the Nature of the Human Being]*
- 109 *Das Prinzip der spirituellen Ökonomie im Zusammenhang mit Wiederverkörperungsfragen. (1909 ; 1963). [The Principle of Spiritual Economy. In Connection with Questions of Reincarnation: An Aspect of the Spiritual Guidance of Man]*
- 110 *Geistige Hierarchien und ihre Widerspiegelung in der physischen Welt. Tierkreis, Planeten, Kosmos. (1909 ; 1997 ; TB 738 : 2009). [The Spiritual Hierarchies and the Physical World: Zodiac, Planets & Cosmos]*
- 112 *Das Johannes-Evangelium im Verhältnis zu den drei anderen Evangelien, besonders dem Lukas-Evangelium. (1909 ; VII 2007).. [The Gospel of St. John. And Its Relation to the Other Gospels]*
- 113 *Der Orient im Lichte des Okzidents. Die Kinder des Luzifer und die Brüder Christi. (1909). [The East in the Light of the West. The Children of Lucifer and the Brothers of Christ]*
- 114 *Das Lukas-Evangelium. (1914 ; 1985 ; TB 665 : 2005).. [According to Luke. The Gospel of Compassion and Love Revealed]*
- 116 *Der Christus-Impuls und die Entwicklung des Ich-Bewusstseins. (1909 – 1910 ; 1961). [The Christ Impulse. And the Development of Ego-Consciousness]*
- 117 *Die tieferen Geheimnisse des Menschheitswerdens im Lichte der Evangelien. (1909 ; 1986). [Deeper Secrets of Human Evolution in Light of the Gospels] [The Universal Human. The Evolution of Individuality (CW 117, 124, 165)]*
- 118 *Das Ereignis der Christus-Erscheinung in der ätherischen Welt. (1910 ; 1984).. [The Second Coming of the Christ]*
- 120 *Die Offenbarungen des Karma. (1910 ; 1992 ; TB 620 : 1975 / 1980).. [Manifestations of Karma]*
- 121 *Die Mission einzelner Volksseelen im Zusammenhang mit der germanisch – nordischen Mythologie. (1910). [The Mission of Folk Souls]*
- 122 *Die Geheimnisse der biblischen Schöpfungsgeschichte. (1910 ; IV 1961 ; TB 706 : VI 1986).. [Genesis. Secrets of Creation]*
- 123 *Das Matthäus-Evangelium. (1910 ; TB 668 : 2000)..[According to Matthew. The Gospel of Christ's Humanity]*
- 125 *Wege und Ziele des geistigen Menschen. Lebensfragen im Lichte der Geisteswissenschaft. (1910 ; 1973). [Paths and Goals of the Spiritual Human Being. Life Questions in the Light of Spiritual Science]*

J. Lexical Part

- [Three Lectures on the Mystery Dramas. The Portal of Initiation and the Soul's Probation]
- 126 *Okkulte Geschichte*. {Occult History} (1910 ; TB 707 : 1993)..
- 127 (Parts) *Die geistige Führung des Menschen und der Menschheit*. (1911 ; 2012).. [The Mission of the New Spirit of Revelation. The Pivotal Nature of the Christ Event in Earth Evolution]
[The Spiritual Guidance of Man and of Mankind (Annotated)]
- 130 *Das esoterische Christentum und die geistige Führung der Menschheit*. (1911 – 1912).
[Christianity as Mystical Fact. And the Mysteries of Antiquity]
[Esoteric Christianity and the Mission of Christian Rosenkreutz]
- 131 *Von Jesus zu Christus*. (1911 ; 1982).. [From Jesus to Christ]
- 132 *Die Evolution vom Gesichtspunkte des Wahrhaftigen*. (1911 ; 1969).. [Inner Experiences of Evolution]
- 134 *Die Welt der Sinne und die Welt des Geistes*. (1911 - 1912 ; TB 766 : 2015).
[The World of the Senses. And the World of the Spirit]
As well in : *Rudolf Steiner Edition No. 102 in Archiati Publishing House : lecture of 12/26/2012 .*
- 135 *Wiederverkörperung und Karma und ihre Bedeutung für die Kultur der Gegenwart*. (1912).
[Reincarnation and Karma. Two Fundamental Truths of Human Existence]
- 136 *Die geistigen Wesenheiten in den Himmelskörpern und Naturreichen*. (1912 ; 1984). [Spiritual Beings in the Heavenly Bodies and in the Kingdoms of Nature] [Awake! For the Sake of the Future]
- 148 *Aus der Akasha - Forschung. Das Fünfte Evangelium*. (1913 , 1914 ; 1985 ; TB 678 : 2003)..
[The Fifth Gospel. From the Akashic Record]
- 149 *Christus und die geistige Welt. Von der Suche nach dem heiligen Gral*. [Christ and the Spiritual World. The Quest for the Holy Grail] (1914 ; 1987).
- 152 *Vorstufen zum Mysterium von Golgotha*. (1913 , 1914 ; TB 679 : 1991).
[Approaching the Mystery of Golgotha]
- 174 b *Die geistigen Hintergründe des Ersten Weltkriegs*. (1915), quoted from : *Archiati Publishing House* : series „*Leben nach dem Tod*“ {Life After Death} , vol. „*Mit den Toten leben*“ {Living with the Dead} (2009).. [The Spiritual Background of WW I]
- 175 *Bausteine zu einer Erkenntnis des Mysteriums von Golgotha*. (1917 ; XIV : 19.4.17).
[Cosmic and Human Metamorphosis]
[Building Stones for an Understanding of the Mystery of Golgotha. Human Life in a Cosmic Context]
- 178 *Individuelle Geistwesen und ihr Wirken in der Seele des Menschen*. (1917 ; 1992).
[Secret Brotherhoods and the Mystery of the Human Double]
Parts : [Freud, Jung, and Spiritual Psychology. (CW 143, 178, 205)]
- 178 (Part) *Bewusstsein oder Geist ? Die Psychoanalyse und die Sonderstellung der Anthroposophie*. {Consciousness or Spirit ? Psychoanalysis and Anthroposophy's Unique Position} (1917 ; *Rudolf-Steiner-Editions* 2019)..
- 182 *Der Tod als Lebenswandlung*. (1918 ; VI : 9.10.18). [The Dead Are with Us]
[Death as Metamorphosis of Life. Including “What Does the Angel Do in Our Astral Body?” & “How Do I Find Christ?”]
[The Work of the Angel in Our Astral Body]
[How Do I Find the Christ?]
- 187 *Wie kann die Menschheit den Christus wiederfinden ? Das dreifache Schattendasein unserer Zeit und das neue Christus-Licht*. (1918 ; 1967). [How Can Mankind Find the Christ Again? The Threefold Shadow-Existence of Our Time and the New Light of Christ]
- 193 *Der innere Aspekt des sozialen Rätsels. Luziferische Vergangenheit und ahrimanische Zukunft*. (1919 ; 1972). [Problems of Society. An Esoteric View, from Luciferian Past to Ahrimanic Future]
[The Esoteric Aspect of the Social Question. The Individual and Society]
[The Influences of Lucifer and Ahriman. Human Responsibility for the Earth (CW 191, 193)]
- 194 *Die Sendung Michaels*. (1919 ; 1962).
[Michael's Mission. Revealing the Essential Secrets of Human Nature]
- 197 *Gegensätze in der Menschheitsentwicklung. West und Ost – Materialismus und Mystik – Wissen und Glauben*. (1920). [Polarities in the Evolution of Humanity. West and East – Materialism and Mysticism – Knowledge and Belief]
- 201 *Entsprechungen zwischen Mikrokosmos und Makrokosmos. Der Mensch – eine Hieroglyphe des Weltalls*. (1920). [Mystery of the Universe. The Human Being, Image of Creation]
Without a no. (B) : Contributions to *Rudolf Steiner Edition, No. 106* : „*Notizbucheinträge aus dem Jahre 1922*“ {1922, Memo Book Entries} , quoted from : *Rudolf Steiner Edition* : „*Bewusstsein oder Geist ?*“ {Consciousness or Spirit ?} (2019).
- 217 a *Die Erkenntnisaufgabe der Jugend*. (1920 – 1924 ; 1981, in German out of print).
[Youth and the Etheric Heart. Rudolf Steiner Speaks to the Younger Generation]
- 223 *Der Jahreskreislauf als Atmungsorgan der Erde und die vier großen Festeszeiten. Die Anthroposophie und*

J.1. Rudolf Steiner's Work Quoted

- das menschliche Gemüt. (1923 ; TB 719 : 2009)..*
[The Cycle of the Year as Breathing Process of the Earth]
- 229 *Das Miterleben des Jahreslaufs in vier kosmischen Imaginationen. (1923 ; TB 760 : 2006)..* [The Four Seasons and the Archangels. Experience of the Course of the Year in Four Cosmic Imaginations]
- 232 *Mysteriengestaltungen. (1923 ; 1974).* [Mystery Knowledge and Mystery Centres]
[Michaelmas and the Soul-Forces of Man]
- 235 *Esoterische Betrachtungen karmischer Zusammenhänge. Erster Band. (1924 ; 1970).*
[Karmic Relationships 1 . Esoteric Studies]
- 241 a – c and 242 *Esoterische Unterweisungen für die Erste Klasse der Freien Hochschule für Geisteswissenschaft am Goetheanum (1924). Der Meditationsweg der Michaelschule in neunzehn Stufen. Rudolf Steiners esoterisches Vermächtnis aus dem Jahre 1924. {Esoteric Schooling of the First Class of the Free University of Spiritual Science at the Goetheanum (1924). The Meditation Path of Michael's School in 19 Steps. Rudolf Steiner's Esoteric Legacy from 1924} (V 2016).*
- 262 *Rudolf Steiner / Marie Steiner – von Sivers : Briefwechsel und Dokumente.*
[Letters and Documents, 1901–1925]
- 270 / III *Esoterische Unterweisungen für die Erste Klasse der Freien Hochschule für Geisteswissenschaft am Goetheanum (1924) : Sieben Wiederholungsstunden.* [Esoteric Lessons for the First Class of the School of Spiritual Science at the Goetheanum (1924). 7 Review Lessons]
[The First Class of the Michael School. Recapitulation Lessons and Mantras]
- 293 *Allgemeine Menschenkunde als Grundlage der Pädagogik. (1919 ; 1986 , 1992).* [The Education of the Child: And Early Lectures on Education (CW 293 & 66) (Foundations of Waldorf Education, 25)]
[Study of Man. General Education Course]
[The Foundations of Human Experience. (CW 293 & 66)]
- 300 a *Konferenzen mit Lehrern der Freien Waldorfschule. {Meeting with Teachers of the Free Waldorf / Steiner School} (1919 ; 1975).*
- 312 *Geisteswissenschaft und Medizin. (1920 ; TB 677 : 2000)..* [Introducing Anthroposophical Medicine]
- 319 *Die Kunst des Heilens vom Gesichtspunkte der Geisteswissenschaft. (1923 ; TB 630 : 2008)..*
[The Healing Process. Spirit, Nature & Our Bodies]
- 321 *Geisteswissenschaftliche Impulse zur Entwicklung der Physik : II . Zweiter naturwissenschaftlicher Kurs : Die Wärme auf der Grenze positiver und negativer Materialität. (1920).*
[Warmth Course. The Theory of Heat: Second Scientific Lecture Course]
- 323 *Das Verhältnis der verschiedenen naturwissenschaftlichen Gebiete zur Astronomie. Dritter naturwissenschaftlicher Kurs : Himmelskunde in Beziehung zum Menschen und zur Menschenkunde. (1921).*
[Interdisciplinary Astronomy. Third Scientific Course]
- 324 *Naturbeobachtung, Experiment, Mathematik und die Erkenntnisstufen der Geistesforschung. (1921).*
[Anthroposophy and Science. Observation, Experiment, Mathematics]
- Without a no. (C) : *Anthroposophie - ihre Erkenntniswurzeln und Lebensfrüchte. {Anthroposophy - the Roots of Its Recognition and Fruits of Life} (1921 ; 1962)..*
- 327 *Geisteswissenschaftliche Grundlagen zum Gedeihen der Landwirtschaft. Landwirtschaftlicher Kurs. (1924 ; 1984)..* [Agriculture Course. The Birth of the Biodynamic Method]
[Agriculture: Spiritual Foundations for the Renewal of Agriculture]
[What Is Biodynamics?: A Way to Heal and Revitalize the Earth (7 out of 8 lectures)]

Lectures and courses about christian-religious life :

- 344 *III : Vorträge bei der Begründung der Christengemeinschaft. {Lectures When Founding the Christian Community} (1922 ; 1993).*
- 346 *V : Apokalypse und Priesterwirken. (1924 ; 1995).* [The Book of Revelation. And the Work of the Priest]

Lectures for the Goetheanum workers :

- 347 *Die Erkenntnis des Menschenwesens nach Leib, Seele und Geist. Über frühe Erdzustände. Band I. (1922).*
[From Crystals to Crocodiles. Answers to Questions]
- 349 *Vom Leben des Menschen und der Erde. Über das Wesen des Christentums. Band III. {Human Life and Life of the Earth} (1923).*
- 350 *Rhythmen im Kosmos und im Menschenwesen. Wie kommt man zum Schauen der geistigen Welt ? Band IV. (1923 ; 1962 ; in Rudolf Steiner Edition, too : Vorträge vor Arbeitern 4. {Lectures to Workers Vol. 4} (III 2018). [Learning to See into the Spiritual World. Lectures to the Workers at the Goetheanum]
[From Mammoths to Mediums. Answers to Questions]*
- 354 *Die Schöpfung der Welt und des Menschen. Erdenleben und Sternenwirken. Band VIII. (1924).*
[From Sunspots to Strawberries. Answers to Questions]

Selected Texts of R. Steiner's.

Einführung in die Anthroposophie. {Introduction to Anthroposophy} Editor Walter Kugler (TB 656 : 2006)..

Der Hüter der Schwelle. Zwölf Standpunkte. {The Guardian of the Threshold. 12 Positions} (compiled by Maurice le Gerrannic) (2008)..

Spirituelle Perspektiven Stichworte. {Spiritual Perspectives Keywords} : *Anthroposophie.* {Anthroposophy} (I 2012) ; *Freiheit.* {Freedom} (I 2014) ; *Gehirn.* {Brain} (I 2012) ; *Karma.* (I 2013) ; *Lüge.* {Lying} (I 2015) ; *Meditation.* (II 2014) ; *Zeit.* {Time} (I 2018).

Other Steiner Works Available in English.

Rudolf Steiner Collected Works: Theosophy, An Outline of Occult Science, The Way of Initiation & Initiation and its Results (4 books in 1)

- 3 Truth and Science. Prelude to “The Philosophy of Spiritual Activity” / Truth and Knowledge. Introduction to the Philosophy of Spiritual Activity
- 5 Friedrich Nietzsche Fighter for Freedom
- 7 Mystics at the Dawn of the Modern Age And Their Relation to the Current Natural-Scientific Paradigm. / Mystics after Modernism. Discovering the Seeds of a New Science in the Renaissance
- 9 Theosophy / Theosophy. An Introduction to the Supersensible Knowledge of the World and the Destination of Man / Theosophy. An Introduction to the Suprasensory Knowledge of the World and the Vocation of Man / Theosophy : An Introduction to the Spiritual Processes in Human Life and in the Cosmos
- 12 The Stages of Higher Knowledge. Imagination, Inspiration, Intuition
- 14 Four Modern Mystery Dramas : The Doorway of Initiation • The Trial of the Soul • The Guardian of the Threshold • The Souls Awaken. / Four Mystery Dramas. The Portal of Initiation - The Soul's Probation - The Guardian of the Threshold - The Souls' Awakening. - Parts : The Soul's Awakening. A Drama of the Soul & Spirit. / Rudolf Steiner's Third and Fourth Mystery Dramas. The Guardian of the Threshold, The Souls Awaken
- 15 The Spiritual Guidance of the Individual and Humanity. Some Results of Spiritual-Scientific Research into Human History and Development
- 16 A Path to Self-knowledge In Eight Meditations. / A Way of Self-Knowledge. And the Threshold of the Spiritual World (CW 16–17)
- 17 The Threshold of the Spiritual World. Aphoristic Contemplations. / A Road to Self Knowledge and the Threshold of the Spiritual World / A Way of Self-Knowledge. And the Threshold of the Spiritual World (CW 16–17)
- 18 The Riddles of Philosophy Presented in an Outline of Its History
- 21 The Case for Anthroposophy. Extracts from “Riddles of the Soul”
- 23 Towards Social Renewal. Rethinking the Basis of Society
- 27 Extending Practical Medicine. Fundamental Principles Based on the Science of the Spirit
- 28 Autobiography. Chapters in the Course of My Life, 1861–1907
- 35 Approaches to Anthroposophy
- 45 Anthroposophy (A Fragment). A New Foundation for the Study of Human Nature
- 51 On Philosophy, History, and Literature. Lectures at the Worker Education School and the Independent College, Berlin, 1901–1905
- 56 Natural Science at the Crossroads / The Samaritan Course
- 57 The Four Temperaments
- 58 Transforming the Soul. Vol. 1
- 59 Transforming the Soul. Vol. 2
- 60 , 61 Turning Points in Spiritual History. Zarathustra, Hermes, Moses, Elijah, Buddha, Christ
- 62 Results of Spiritual Research
- 66 [The Foundations of Human Experience. (CW 293 & 66) / The Education of the Child: And Early Lectures on Education (CW 293 & 66) (Foundations of Waldorf Education, 25)]
- 74 The Redemption of Thinking. A Study in the Philosophy of Thomas Aquinas
- 75 Anthroposophy and the Natural Sciences. Foundations and Methods
- 79 Self-consciousness. The Spiritual Human Being
- 81 Reimagining Academic Studies. Science, Philosophy, Education, Social Science, Theology, Theory of Language
- 82 Becoming Fully Human. The Significance of Anthroposophy in Contemporary Spiritual Life
- 83 The Tension between East and West *Edition 2 Revised*
- 84 The Aims of Anthroposophy and the Purpose of the Goetheanum
- 88 Concerning the Astral World and Devachan
- 93 a Foundations of Esotericism

- 102 Good and Evil Spirits and their Influence on Humanity
- 115 A Psychology of Body, Soul, and Spirit. Anthroposophy, Psychosophy, Pneumatosophy
- 119 Macrocosm and Microcosm. The Greater and the Lesser World: Questions Concerning the Soul, Life and the Spirit
- 124 Background to the Gospel of Mark. *Edition 2 Revised.* / The Universal Human. The Evolution of Individuality (CW 117, 124, 165)
- 129 Wonders of the World. Trials of the Soul, Revelations of the Spirit
- 139 The Gospel of St. Mark
- 140 Life Between Death and Rebirth: The Active Connection Between the Living and the Dead
- 141 Between Death and Rebirth. In Relation to Cosmic Facts
- 142 The Bhagavad Gita and the West. The Esoteric Significance of the Bhagavad Gita and Its Relation to the Epistles of Paul (CW 142, 146)
- 143 Three Paths to Christ: Experiencing the Supersensible / How to Cure Nervousness / - Parts : Freud, Jung, and Spiritual Psychology. (CW 143, 178, 205)
- 144 The Mysteries of Initiation. From Isis to the Holy Grail
- 145 The Effects of Esoteric Development
- 146 The Bhagavad Gita and the West. The Esoteric Significance of the Bhagavad Gita and Its Relation to the Epistles of Paul (CW 142, 146)
- 147 Secrets of the Threshold
- 150 How the Spiritual World Projects into Physical Existence. The Influence of the Dead
- 151 Human and Cosmic Thought *Edition 2 Revised*
- 153 The Inner Nature of Man. And Our Life between Death and Rebirth
- 154 The Presence of the Dead on the Spiritual Path
- 155 Christ and the Human Soul: The Meaning of Life – The Spiritual Foundation of Morality – Anthroposophy and Christianity
- 156 Inner Reading and Inner Hearing. And How to Achieve Existence in the World of Ideas
- 157 a Spiritual Life Now and after Death. *Edition 2 Revised.* Forming Our Destiny in the Physical and Spiritual Worlds
- 158 Our Connection with the Elemental World. Kalevala – Olaf Åsteson – the Russian People: The World as the Result of Balancing Influences
- 159 The Mystery of Death : The Nature and Significance of Central Europe and the European Folk-Spirits
- 161 Artistic Sensitivity as a Spiritual Approach to Knowing Life and the World
- 164 The Value of Thinking : For a Cognition that Satisfies the Human Being: The Relationship between Spiritual Science and Natural Science
- 165 Unifying Humanity Spiritually. Through the Christ Impulse. / The Universal Human. The Evolution of Individuality (CW 117, 124, 165)
- 167 The Human Spirit Past and Present. Occult Fraternities and the Mystery of Golgotha
- 168 The Connection between the Living and the Dead
- 169 Toward Imagination. Culture and the Individual
- 172 The Karma of Vocation
- 173 The Karma of Untruthfulness. Volume 1. / The Karma of Untruthfulness. Volume 1: Secret Societies, the Media, and Preparations for the Great War
- 174 The Karma of Untruthfulness. Volume 2: Secret Societies, the Media, and Preparations for the Great War
- 174 a Europe between East and West In Cosmic and Human History
- 176 The Karma of Materialism. Aspects of Human Evolution
- 177 The Fall of the Spirits of Darkness. The Spiritual Background to the Outer World: Spiritual Beings and their Effects
- 179 The Influence of the Dead on Destiny
- 180 Ancient Myths and the New Isis Mystery
- 181 Dying Earth and Living Cosmos. The Living Gifts of Anthroposophy: The Need for New Forms of Consciousness
- 183 Human Evolution. A Spiritual–Scientific Quest
- 184 Eternal and Transient Elements in Human Life. The Cosmic Past of Humanity and the Mystery of Evil
- 185 From Symptom to Reality In Modern History
- 186 The Challenge of the Times
- 189 Conscious Society. Anthroposophy and the Social Question
- 190 Past and Future Impulses in Societal Events
- 191 Understanding Society through Spiritual-Scientific Knowledge. Social Threefolding, Christ, Lucifer, and Ahriman / The Influences of Lucifer and Ahriman. Human Responsibility for the Earth (CW 191, 193)
- 192 Education as a Force for Social Change. (CW 296, 192, 330/331)

J. Lexical Part

- 195 Cosmic New Year. Thoughts for New Year 1920
- 196 What Is Necessary in these Urgent Times
- 199 Spiritual Science as a Foundation for Social Forms
- 202 The Bridge between Universal Spirituality and the Physical Constitution of Man. / Universal Spirituality and Human Physicality. Bridging the Divide: The Search for the New Isis and the Divine Sophia
- 204 Materialism and the Task of Anthroposophy
- 205 Therapeutic Insights. Earthly and Cosmic Laws
- 207 Cosmosophy. Cosmic Influences on the Human Being
- 209 The Language of the Cosmos. Cosmic Influences and the Spiritual Task of Northern Europe
- 211 The Sun Mystery and the Mystery of Death and Resurrection. Exoteric and Esoteric Christianity
- 212 Life of the Human Soul. And its Relation to World Evolution
- 214 The Mystery of the Trinity. *Edition 2 Revised and Updated*. Mission of the Spirit
- 216 Supersensible Impulses in the Historical Development of Humanity
- 217 Becoming the Archangel Michael's Companions. Rudolf Steiner's Challenge to the Younger Generation
- 218 Spiritual Relations in the Human Organism / Spirit as Sculptor of the Human Organism
- 219 Man and the World of the Stars. The Spiritual Communion of Mankind
- 220 Awake! For the Sake of the Future
- 221 Earthly Knowledge and Heavenly Wisdom
- 222 The Driving Force of Spiritual Powers in World History
- 225 Three Perspectives of Anthroposophy. Cultural Phenomena from the Point of View of Spiritual Science
- 227 The Evolution of Consciousness. As Revealed through Initiation Knowledge
- 228 Initiation Science. And the Development of the Human Mind
- 230 Harmony of the Creative Word. The Human Being & the Elemental, Animal, Plant, and Mineral Kingdoms
- 231 At Home in the Universe. *Edition 2 Revised*. Exploring Our Suprasensory Nature
- 233 World History and the Mysteries. In the Light of Anthroposophy
- 233 a Rosicrucianism and Modern Initiation. Mystery Centres of the Middle Ages: The Easter Festival and the History of the Mysteries
- 234 Anthroposophy and the Inner Life. An Esoteric Introduction
- 235 Karmic Relationships 6 . Esoteric Studies (CW 235, 236, 240)
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- 243 True and False Paths of Spiritual Research
- 245 Guidance in Esoteric Training. From the Esoteric School
- 253 Sexuality, Inner Development, and Community Life. Ethical and Spiritual Dimensions of the Crisis in the Anthroposophical Society in Dornach, 1915
- 257 Awakening to Community
- 258 The Anthroposophical Movement. The History and Conditions of the Anthroposophical Movement in Relation to the Anthroposophical Society: An Encouragement for Self-Examination
- 260 The Christmas Conference. For the Foundation of the General Anthroposophical Society 1923/1924
- 260 / 260 a The Foundation Stone / The Life, Nature & Cultivation of Anthroposophy
- 261 Our Dead. Memorial, Funeral, and Cremation Addresses 1906–1924
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- 265 Freemasonry and Ritual Work. The Misraim Service
- 266/1 Esoteric Lessons 1904–1909. From the Esoteric School 1
- 266/2 Esoteric Lessons 1910–1912. From the Esoteric School 2
- 266/3 Esoteric Lessons 1913–1923. From the Esoteric School 3
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- 268 Mantric Sayings: Meditations 1903–1925
- 270 Esoteric Lessons for the First Class of the School of Spiritual Science at the Goetheanum. Volumes 1 - 4 . / The First Class Lessons and Mantras. The Michael School Meditative Path in Nineteen Steps
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- 275 Art as Seen in the Light of Mystery Wisdom
- 276 The Arts and Their Mission
- 277 a Eurythmy. Its Birth and Development / An Introduction to Eurythmy
- 277 c The Early History of Eurythmy
- 278 Eurythmy as Visible Singing
- 279 Eurythmy as Visible Speech / Eurythmy as Speech Made Visible. Speech Eurythmy Course
- 280 Creative Speech. The Formative Process of the Spoken Word
- 282 Speech and Drama
- 284 Rosicrucianism Renewed. The Unity of Art, Science & Religion: The Theosophical Congress of Whitsun
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- 286 Architecture as a Synthesis of the Arts
- 287 Architecture as Peacework. The First Goetheanum, Dornach, 1914
- 288 Architecture, Sculpture, and Painting of the First Goetheanum
- 289 ? 290 ? Toward a New Theory of Architecture. The First Goetheanum in Pictures
- 291 Colour
- 292 Art History as a Reflection of Inner Spiritual Impulses
- 294 Practical Advice to Teachers
- 295 Discussions with Teachers
- 296 Education as a Force for Social Change. (CW 296, 192, 330/331)
- 297 The Spirit of the Waldorf School. Lectures Surrounding the Founding of the First Waldorf School, Stuttgart–
1919
- 298 Rudolf Steiner in the Waldorf School. Lectures and Addresses to Children, Parents, and Teachers
- 301 The Renewal of Education
- 302 Education for Adolescents
- 302 a Balance in Teaching
- 303 Soul Economy. Body, Soul, and Spirit in Waldorf Education
- 304 Waldorf Education and Anthroposophy 1
- 304 a Waldorf Education and Anthroposophy 2
- 305 The Spiritual Ground of Education
- 306 The Child's Changing Consciousness. As the Basis of Pedagogical Practice
- 307 A Modern Art of Education
- 308 The Essentials of Education
- 309 The Roots of Education
- 310 Human Values in Education
- 311 The Kingdom of Childhood : Introductory Talks on Waldorf Education
- 313 Anthroposophic Spiritual Science and Medical Therapy. The Second Medical Course. / Illness and Therapy.
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- 314 Fundamentals of Anthroposophical Medicine / Physiology and Healing. Treatment, Therapy, and Hygiene
- 316 Understanding Healing. Meditative Reflections on Deepening Medicine through Spiritual Science
- 317 Education for Special Needs. The Curative Education Course
- 318 Broken Vessels. The Spiritual Structure of Human Frailty
- 320 The Light Course. First Course in Natural Science: Light, Color, Sound—Mass, Electricity, Magnetism
- 322 The Boundaries of Natural Science
- 324 a The Fourth Dimension. Sacred Geometry, Alchemy & Mathematics
- 326 The Origins of Natural Science
- 330 / 331 Education as a Force for Social Change. (CW 296, 192, 330/331)
- 332 a The Social Future. Culture, Equality, and the Economy
- 333 Freedom of Thought and Societal Forces. Implementing the Demands of Modern Society
- 338 Communicating Anthroposophy. The Course for Speakers to Promote the Idea of Threefolding
- 339 The Art of Lecturing
- 340 , 341 Rethinking Economics. Lectures and Seminars on World Economics
- 342 First Steps in Christian Religious Renewal. Preparing the Ground for The Christian Community
- 348 From Comets to Cocaine. Answers to Questions
- 349 From Limestone to Lucifer. Answers to Questions
- 351 Bees
- 353 From Beetroot to Buddhism. Answers to Questions

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Meditations for Harmony and Healing. Finding the Greater Self
Meditations for the Dead. Connecting to Those Who Have Died
Meditations for Times of Day and Seasons of the Year. Breathing the Spirit
Self-Doubt. Depression, Anxiety Disorders, Panic, and Fear: Threshold Experiences, Crises of the Soul, and
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Social Threefolding. Rebalancing Culture, Politics and Economics: An Introductory Reader
Start Now!: A Book of Soul and Spiritual Exercises
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Spiritual Enlightenment and Initiation
Surviving Apocalypse: Creating Your Ark
The Reappearance of Christ in the Etheric. A Collection of Lectures on the Second Coming of Christ
The Human Heart: Supersensible Organ of Perception
The Incarnation of Ahriman: The Occult Annihilation of the Soul
The Second Coming of Christ: In the Etheric Realm

J.2. Glossary

All his life Steiner avoided giving clear definitions because we were to discover, experience, and sense the meanings of notions within ourselves. In fact Steiner repeatedly said that the meanings of notions are going to develop while thinking. Moreover :

„Wir charakterisieren, wenn wir die Dinge unter möglichst viele Gesichtspunkte stellen. Dann sind diese Beziehungen so vielgliedrig, dass nicht eine Definition herauskommt, sondern eine Charakteristik.“ (R.Steiner 293:139).

We distinguish when regarding things under as many view point as we can. Then such connections are so multifaceted that in the end we will not have a definition but a characteristic.

We authors confide in readers taking the following glossary of terms for tentative. So this glossary is just meant to facilitate a beginner's first steps into anthroposophy. At the same time we would like you to take to heart : anthroposophy begins at sensing within oneself.

Volume 2 of the present website will mention the *etheric world*. It is explained as 'nearest' to the physical Earth (e.g. Ben-Aharon «Cognitive Yoga ...», 1 2016, pg 4 and 11). 'Nearest' in a thematic meaning, i.e. of all the *spiritual worlds* the one we could understand best. It stands out in wafting, changing all the time, never keeping the same the way we need things to do in the *physical world*. It is life. Definitions and descriptions will have changed by the time we begin thinking them through. When wishing to approach the *spiritual worlds* - as Steiner incites us to do over and over again - , we need to enter the *etheric world*. Then denominations do not hold any more. A glossary is not needed any more.

May the reader remember this when using the following glossary, too.

* : see in this glossary. - Age indications «... years ago» refer to the radiometric measuring method with its logarithmic scale. Age indications “BCE / CE” refer to the linear sun scale of the Platonic world year.

≠/=: different from. - *Italics* for anthroposophic expressions.

A.

abiogenesis : the origin of life from nonliving matter, specifically : a theory in the evolution of early life on earth : organic molecules and subsequent simple life forms first originated from inorganic substances.

[Merriam-Webster, 5/24]. - The natural process by which life arises from non-living matter, such as simple organic compounds. The prevailing scientific hypothesis is that the transition from non-living to living entities on Earth was not a single event, but a process of increasing complexity involving the formation of a habitable planet, the prebiotic synthesis of organic molecules, molecular self-replication, self-assembly, autocatalysis, and the emergence of cell membranes. The transition from non-life to life has never been observed experimentally, but many proposals have been made for different stages of the process. [en.wikipedia.org 9/24].

above the Sun = 'obersonnig' : Compared to the heliocentric world view the Sun and the Earth changed places in the geocentric world view placing the Earth in the center = 'low'. 'above the Sun' are Mars, Jupiter, and Saturn. Other planets, the *Kuiper- belt, and the *Oort cloud are not considered in the geocentric world view. ≠/=: under the Sun.

Adam = man. Compare : **Adamah** (in hebrew : ādāmāh : earth, ground). The name of “Eve” (in hebrew : ḥawwāh oder çawwah; [ħa'va] or [χa'va]) is taken as related to the verb *chajah* (to live, to stay alive), so meaning “the animate one”. [Wikipedia.de].

Adam Kadmon = the first of Four Worlds that came into being after the contraction of God's infinite light. [en.wikipedia.org 11/25]. **Adam Kadmon** is understood to mean the primordial human image according to the kabbala and Aggadah. His effigy is man on earth. Man on earth, however, lost the three kinds of wisdom which place Adam Kadmon at God's side, namely wisdom, magnificence, and immortality. In the history of mysticism the representation of Adam Kadmon often led to considerations of schemes concerning man's state in the beginning, and what he is to become in the end. [Wikipedia.de].

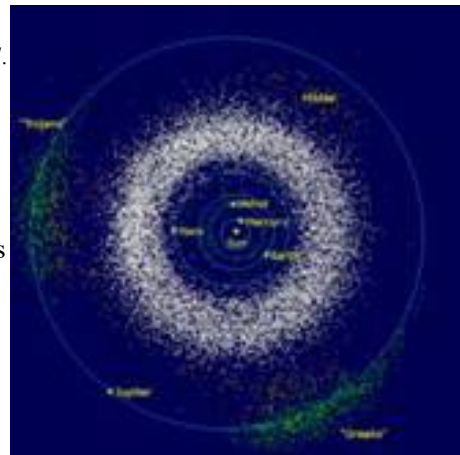
J. Lexical Part

- aeons, eons**: in anthroposophy: = *spirits of motion* = *mights* = *dynamis* = *virtues* = *virtutes* : 2nd grade {2.2} of *gods* {2}.
- aeons, eons** : in gnosis : from Greek : eternity, spiritual beings complementing their activities one by one.
- ages** : R. Steiner uses the term in 6 meanings only 2 of which he distinguishes by adjectives :
- {1.} in long spans of time : 7 *ages* form the *physical form state* of *EARTH*. Each *age* consists of 7 *epochs*, except for the 7 *epochs* of the *Post-Atlantic age*, called **cultural periods* because Steiner deals primarily with their cultures. Each *cultural period* takes 2160 years, accumulating to 7 * 2160 = 15120 years of the *Post-Atlantic age*. - Of the other *ages* we do not know the duration. The 4 preceding ones are *Polaris, Hyperboreis, Lemuris, and Atlantis*. The 2 following ones are the 7 **signets*, and the 7 trombones.
- {2.} in medium spans of time : During the opening time of his lectures (*e.g. in R. Steiner 350 am 8. und 15.11.1911*) as well as during the 2nd half of his last work (*CW 26, e.g. 2/15/1925*) Steiner quite often named *cultural periods* : *ages* :
- the *age* of the *sentient body* = 2nd *cultural period* (5067 - 2907 BCE),
the *age* of the *sentient soul* = 3rd *cultural period* (2907 - 747 BCE),
the *age* of the *reasoning and mind soul* = 4th *cultural period* (747 BCE - 1413 CE),
and the *age* of the *consciousness soul* = 5th *cultural period* (1413 - 3573 CE) - not to be confused with the *consciousness age* = today's *Post-Atlantic age*.
- {3.} in short spans of time : see in vol. I, part 1, chapter B.4. «Mankind-Oriented Hierarchies in the Spiritual World» subsection «Another Group of 7s : Christian-Esoteric Archangels» : The 7 Christian archangels succeed each other in an unchanging sequence. Each archangel has an age of 300 - 400 year at his disposal, corresponding to the needs of the time. The sequence is : ... , Gabriel , Michael , Orphiel , Anael , Zachariel , Raphael , Samuel , Gabriel , Michael , Orphiel , ... - We are concerned with today's Michael age before all, which is meant to bring us closer to the Christ appearing in the *etheric world*. The Michael age before was earlier than the Christ Jesus' life time on Earth. At the time Michael prepared Christ's becoming a human.
- {4.} in very short spans of time : 100 - 200 years as the shortest parts of the 5th *cultural period* (*R. Steiner 26, 4/12/1925 : published posthumously*). :
- philosophical age* : 17th - 18th centuries (*R. Steiner 26:282 -> 289, LXV : 4/12/1925*),
scientific age: end of the 19th and 20th centuries (*R. Steiner 26:282, LXV : 4/12/1925*),
technical age : 20th - ? centuries (*R. Steiner 26:284f, LXV : 4/12/1925*).
- Ever so rarely does Steiner differentiate by adjectives :
- {5.} From the Hindu religion : the age of goddess Kali = Kali Yuga, mistaken as the Dark Age, beginning 2/18/3102 BCE [Wikipedia.de], and ending 1899 CE after 5000 years (*R. Steiner 118:119, 3/6/1910*).
- {6.} Shortly before dying (*R. Steiner 26:252 and 254 ; LX : 3/8/1925*) Steiner mentioned the „*actual cosmic age*“ clearly meaning the actual *planetary development state* : *EARTH*.
- Ahriman** (from ancient Persian «Angra Mainyu» (*R. Steiner 13:281, IV*) : destroyer) : harming spirit of the 2nd = primordial Persian **cultural period*. =/= **Ormuzd*. - Ahriman chaperones mankind since the middle of the *Atlantean *age*, intending to dominate the **ether body / life body* of persons as well as of all mankind by promising rapid fulfillment on earth. Man is to resign to freedom of choice at the expense of man's path to the *spiritual*. =/= Lucifer.
- Angels** in the broad sense {3} = 3rd *hierarchy* of **spiritual beings* : arranging affairs on earth.
- Angels** in the strict sense {3.3} = *Angeloi* = messengers of gods : the lowest step of **spiritual beings*, directly above man.
- Anthroposophy** : “*Anthroposophy is a path to cognition wishing to lead what is spiritual in man, to the spiritual in the universe. Anthroposophy turns up as an urge we feel in the heart. Anthroposophy must find its justification when it can satisfy this urge. Only he can acknowledge anthroposophy who finds in it what he must search for from his soul. So anthroposophists can only be people who feel certain questions concerning man and the world as much to be necessary for life as hunger and thirst.*” (*R. Steiner 26, Leading Thought 1*).
- apes** : Old World = tailless monkeys [Merriam-Webster 11/25]. subordinate concept of **primates* ; superordinate concept of **hominoids* and **hominids*. - **Great apes** = *Menschenaffen* : chimpanzee, bonobo, gorilla, orangutan.
- archaea** ; sg.: archaeon is a domain of single-celled organisms. These microorganisms lack cell nuclei and are therefore prokaryotic. [en.wikipedia.org 10/24].
- Archean** «primordial eon» : Erdurzeit, 2nd **eon*, 74 – 2,5? billion years ago, middle part of the **Precambrian*.
- Ardipithecus** : a genus of extinct early hominids known from skeletal remains from northeastern Ethiopia [Merriam-Webster 11/25]. - An extinct species of primates from the family of great **apes* in Ethiopia ~

6 to 4 million years ago. Is reckoned among the best genus known in the development line of *hominini. Possibly the type *Ardipithecus ramidus* belongs to the direct ancestors of the genus *Australopithecus* and *Homo* or is at least close. [Wikipedia.de].

asthenosphere «feeble / soft sphere» : a zone of a celestial body such as the earth which lies beneath the *lithosphere and within which the material is believed to yield readily to persistent stresses [Merriam-Webster 11/25]. - 100 – 400 km deep, uppermost but one part of the Earth's mantle, soft because of the pressure of the *lithosphere on top. Facilitating *continental drift because the lithosphere glides on top. Slowing the velocity of Earth quakes down because of its viscoelastic consistency. - The mechanically weak and ductile region of the upper mantle of Earth. It lies below the lithosphere, at a depth between ~80 and 200 km (50 and 120 mi) below the surface, and extends as deep as 700 km (430 mi). However, the lower boundary of the asthenosphere is not well-defined. The asthenosphere is almost solid, but a slight amount of melting (less than 0.1% of the rock) contributes to its mechanical weakness. More extensive decompression melting of the asthenosphere takes place where it wells upwards, and this is the most important source of magma on Earth. It is the source of mid-ocean ridge basalt (MORB) and of some magmas that erupted above subduction zones or in regions of continental rifting [en.wikipedia.org , 9/24].

Fig. J.2.a Asteroid belt [Wikipedia.de].



asteroid belt : see Oort cloud.

astral = concerning the soul.

astral body = feeling body = soul body : *spiritual*, only *clairvoyantly* discernible carrier of all feelings. During *EARTH* just with animals and humans. Led by *spiritual beings* which we tend to localize behind the stars - that is why the name - , it allows us to recognize just momentary perceptions, =/= human *soul*, working momentarily and changeable, =/= *ether body*. In the *physical body* the *astral body* shows in the nervous system. Developing *ontogenetically during 3rd 7 years before all. Originating *phylogenetically as the 1st anlage from the 2nd anlage of the ether body during *OLD MOON* as well as from the *Lemurian age* on. Creating the *human soul* from the 2nd anlage of the *astral body* especially during the *Post-Atlantic age*.

asuras : one of a class of beneficent celestial spirits of early Vedic and Zoroastrian mythology ; one of a class of demons or titans in later Hinduism and Buddhism, the enemies of the gods [Merriam-Webster 11/25]. - Attempting to destroy the human physical body, see *Sorath. - In Hinduism demons, antagonists of the light-encircled devas or suras. According to mythology they are the powerful children of the goddess Diti. In the Rig Veda [the foremost and oldest collection of Vedic Sanskrit hymns [Merriam-Webster 11/25]] the notion partially takes on the meaning of 'divine', 'good spirit', or 'utmost spirit'. In Buddhism the asuras belong to the three top areas of existence out of six, between mankind and devas. The asuras' characteristic emotion is jealousy. They are often represented as belligerent beings skirmishing with the devas, and losing every time. Sometimes the modern world is called the area of asuras as humans are scurrying all the time to achieve material purposes they mostly cannot attain. [Wikipedia.de].

Atlantis (1.) : sunken continent in the Atlantic, where humans developed during the *Atlantean *age*. Scientifically not discovered yet.

Atlantis (2.) = *Atlantean *age* : 4th age of the **mineral-physical *form state* of **EARTH*. Earlier than the 8th Flood. Consists of **epochs*. From some 66 million years ago up to 11.7 thousand years ago according to the radiometric, i.e. logarithmic method used ; which is up to ~ 8 thousand years ago according to the linear sun orbit scale, see in vol. I , part 4 , chapter I.1. «Diagram Excerpt».

Atlantean Floods = 7 of the 8 Floods during the *Atlantean *age*. The 8th one takes place in the beginning of the *Post-Atlantean age*.

Atma(n) = spirit man, the highest of the **members-of-the being*. It is what mankind will be striving for during the 7th **planetary development state* of **VULCAN*.

australopithecines, formally *Australopithecina* or **Hominina*, are generally any species in the related genera of **Australopithecus* and **Paranthropus*. It may also include members of *Kenyanthropus*, **Ardipithecus*, and *Praeanthropus*. [en.wikipedia.org , 12/25]. - Is any of various extinct **hominids* (genera **Australopithecus* and **Paranthropus*) that existed two to four million years ago in southern and eastern Africa and include gracile and robust forms exhibiting bipedal locomotion, near-human dentition, and relatively small brains. [Merriam-Webster 11/25].

Australopithecus [«southern ape»] is a genus of early *hominins that existed in Africa during the *Pliocene and Early *Pleistocene. [en.wikipedia.org , 12/25]. - Is an extinct genus known in Africa only and belonging to the group of *Australopithecina, living ~ 4 - 2 million years ago. The genus Australopithecus is ranged among the *Hominini, to which belong the species *Homo including modern man. According to Richard Leakey all kinds belong to «upright walking apes» because their brain is small, and because of other anatomic features, and may be best of all compared to today's steppe baboons when disregarding posture. [Wikipedia.de].

B.

basalt : Outpouring rock containing little Si O₂ [Wikipedia.de, 9/24]. - A dark gray to black dense to fine-grained igneous rock that consists of (...) usually magnetite [Merriam-Webster, 9/24]. - Fine-grained extrusive igneous rock formed from the rapid cooling of low-viscosity lava rich in magnesium and iron [mafic lava] exposed at or very near the surface of a rocky planet or moon. More than 90% of all volcanic rock on Earth is basalt. Basaltic magmas within Earth are thought to originate from the upper mantle. [en.wikipedia.org, 9/24].

basaltic lava : Molten basalt lava has a low viscosity due to its relatively low silica content [between 45% and 52%], resulting in rapidly moving lava flows that can spread over great areas before cooling and solidifying. Flood basalts are thick sequences of many such flows that can cover hundreds of thousands of square kilometers and constitute the most voluminous of all volcanic formations [en.wikipedia.org, 9/24].

bisexuality is a romantic or sexual attraction or behavior toward both males and females [gender binary]. [en.wikipedia.org 10/24].

body : not at all just the **physical body*. In addition *clairvoyants* can recognize the *life forces* of a *living being* called **ether body*, only to be seen *clairvoyantly*. With humans the *ether body* of the head is just about the size of the skull, with animals it is notably larger. - More advanced *clairvoyants* can recognize the **sentient body* = **astral body*, as fluorescing color impressions with humans or animals.

Buddhi = Budhi = *Life spirit*, second highest of the **members-of-the-being*. Mankind is to aim at achieving it during the 6th **planetary development state VENUS*.

building forces / processes : *spiritual* pre-states of *ether forces*. Altogether forming the *ether body*.

C.

Caledonian *orogeny = folding : Norway – Scotland – Appalachians during the *Ordovician [485.4 – 443.4 million years ago].

Cambrian [538.8 – 485.4 million years ago] : earliest period of the *Paleozoic [538.8 – 251.9 million years ago].

Cenozoic «new life» [mammals] = 'Erdneuzeit', [since 66 million years up to our days] : latest era of the *Phanerozoic [538.8 million years ago up to our days]. Corresponding ~ to the **Atlantean *age* [~ 66 million years ago - 11.7 thousand years ago].

centripetal force : force contrary centrifugal force, e.g. gravitation force.



Fig. J.2.C Chacras [Wikipedia.de].

chakra ['wheel', 'dis', 'circle'] : places on the physical body where to experience spiritual perceptions by exercises from today's = 5th **cultural period*. Principal chacras : in the body's middle line. Additional chacras : on both sides near the spine.

1st chakra = crown chakra. - (1st chakra for Steiner : between the eyes = forehead chakra) [= 2nd chakra].

2nd chakra = forehead chakra. - (2nd chakra for Steiner = glottal / frontal neck - chakra) [= 3rd chakra] : near the glottis, facilitating clairvoyant recognition of the ways other souls think. 16Petal lotus blossom of

which 8 were given to man as a present, but cannot be recognized any more because of man's tendency to materialism, and will be recognized again only when the initiate will recognize the other 8 ones which he will recognize as the workings of his own soul.

3rd chakra = glottal chakra. - (3rd chakra for Steiner = heart chakra) [= 4th chakra] : near the heart. 12Petal lotus blossom facilitating clairvoyant recognition of the ways other souls feel.

4th chakra = heart chakra. - (4th chakra for Steiner = solar chakra) [= 5th chakra] : near the solar plexus. 10Petal lotus blossom facilitating clairvoyant recognition of other souls' capacities and talents.

5th chakra = solar chakra. - (5th chakra for Steiner = lumbo - sacral chakra) [= 6th chakra] : intestine.

6th chakra = lumbo - sacral chakra. - (6th chakra for Steiner = root chakra) [= 7th chakra] : excretory organs.

7th chakra = root chakra. - (7th chakra for Steiner = foot sole chakra).

Cherubim = *spirits of utmost wisdom* {1,2} : 2nd grade of the 1st **hierarchy* of **spiritual beings*. Working **spiritually* in the physical Earth's environment the same as the **Seraphim*. Executing what has been planned for the universe. Carrying the *spiritual human core* purely *spiritually* as purely *spiritual* light.

Chladni sonorous figures : figures (such as the geometrical figures of sand on a plate of glass or metal when the bow of a violin is drawn along the edge) formed by the vibrations of a substance emitting a musical tone [Merriam-Webster 12/25]. - When resonating, a plate or membrane is divided into regions that vibrate in opposite directions, bounded by lines where no vibration occurs (nodal lines). Chladni repeated the pioneering experiments of Robert Hooke who, on 8 July, 1680, had observed the nodal patterns associated with the vibrations of glass plates. Hooke ran a violin bow along the edge of a plate covered with flour and saw the nodal patterns emerge. Hooke had already observed this 9 years earlier in 1671, and in turn was inspired by a suggestion he read in Bacon's *Sylva Sylvarum*, where Bacon describes rubbing the rim of a glass filled with water and observing the water "frisk and sprinkle". Hooke presented this in 1680 to the Royal Society, and there was no follow-up. Chladni's technique, first published in 1787 in his book *Entdeckungen über die Theorie des Klanges* ("Discoveries in the Theory of Sound"), consisted of drawing a bow over a piece of metal whose surface was lightly covered with sand. The plate was bowed until it reached resonance, when the vibration causes the sand to move and concentrate along the nodal lines where the surface is still, outlining the nodal lines. The patterns formed by these lines are what are now called *Chladni figures*. Similar nodal patterns can also be found by assembling microscale materials on Faraday waves. [en.wikipedia.org 12/25].

chorda = **notochord** : a flexible supporting rod of cells that exists in the embryos of all chordates, remains in the adults of some primitive forms [as lancelets and lampreys]. [Merriam-Webster 8/24]. - The notochord is an elastic, rod-like structure found in **chordates*. In vertebrates the notochord is an embryonic structure that disintegrates, as the vertebrae develop, to become the nucleus pulposus in the intervertebral discs of the vertebral column. In non-vertebrate chordates, the notochord persists during development. [en.wikipedia.org 12/25].

chordates are divided into three subphyla: Vertebrates [fish, amphibians, reptiles, birds and mammals], whose chorda are replaced by a cartilaginous/bony axial endoskeleton [spine] and are cladistically and phylogenetically a subgroup of the clade Craniata [i.e. chordates with a skull]; Tunicata or Urochordata [sea squirts, salps, and larvaceans], which only retain the synapomorphies during their larval stage; and Cephalochordata [lancelets], which resemble fish but have no gills. [en.wikipedia.org 8/24, altered].

Christ's impulse = the Christ's teachings leading us to universal brotherly love. It shines into the future touching our karma. Any denomination will lead us there.

coelenterates : 'hollow intestine' animals developing later to fresh water polyps, jellyfish, sea anemones, coral animals, e.g., splitting up into **protostomia* and **deuterostomia*. [en.wikipedia.org 8/24, altered].

conodonts ['cone toothed'] are an extinct group of jawless vertebrates (...). They are primarily known from their hard, mineralized tooth-like structures called 'conodont elements'. [en.wikipedia.org 9/24].

consciousness : 1st consciousness state = dull, universal, = deep day consciousness = *Saturn consciousness* : originating during the 1st **planetary development state* **OLD *SATURN*. During **EARTH* in minerals ; containing anlagen of sense organs with mankind, animals, and plants.

2nd consciousness state = dreamless sleep = *Sun consciousness* : originating during the 2nd **planetary development state* **OLD *SUN*. During **EARTH* in plants ; containing anlagen of glands as well as growth organs {digestion as well as propagation organs} with mankind and animals.

3rd consciousness state = image consciousness as when dreaming in sleep = *Moon consciousness* : originating during the 3rd **planetary development state* **OLD *MOON*. During **EARTH* in animals that cannot produce sounds from their interior ; containing anlagen of the nervous system with mankind and higher animals {meaning animals which cannot produce sounds from their interior}.

J. Lexical Part

4th consciousness state = today's = matter consciousness = waking day consciousness = *Earth consciousness* : originating during the 4th **planetary development state* **EARTH* in mankind and animals that can produce sounds from their interior.

5th consciousness state = psychic consciousness = *aura consciousness* = *Jupiter consciousness* : = image consciousness {= 3rd} + waking day consciousness {= 4th} : originating during the 5th **planetary development state* *JUPITER*.

6th consciousness state = psychic consciousness {= 5th} + everything man of today is still sleeping about = consciousness state of *inspiration* = of harmonious sounds = of spherical harmonies = *Venus consciousness* : originating during the 6th **planetary development state* *VENUS*, corresponding to *Sun consciousness* {= 2nd}, but more clear.

7th consciousness state = *spiritual consciousness* = universal consciousness = *Vulcan consciousness* : originating during the 7th **planetary development state* *VULCAN*, corresponding to *Saturn consciousness* {= 1st}, but more clear.

consciousness soul : consciousness state, originating during today's (Anglo-Saxon-Germanic) = 5th **cultural period* of the *Post-Atlantic* **age*.

(age) of consciousness soul = 5th **cultural period*, from 1413 – 3573 CE, of the *Post-Atlantic* **age*.

consciousness age = *Post-Atlantic* **age*, from 7227 BCE – 38133 CE.

continental drift : a highly supported scientific theory, originating in the early 20th century, stating that Earth's continents move or drift relative to each other over geologic time. The theory of continental drift has since been validated and incorporated into the science of plate tectonics, which studies the movement of the continents as they ride on plates of the Earth's lithosphere. The speculation that continents might have "drifted" was first put forward by Abraham Ortelius in 1596. A pioneer of the modern view of mobilism was the Austrian geologist Otto Ampferer. The concept was independently and more fully developed by Alfred Wegener in his 1915 publication, "The Origin of Continents and Oceans". However, at that time his hypothesis was rejected by many, largely because there was no known geological mechanism which could propel such massive movements. In 1931, the English geologist Arthur Holmes proposed mantle convection for that mechanism, which is now known to be powered by radioactive decay and primordial heat and a much smaller amount of heat from tidal heating. [en.wikipedia.org 12/25].

cosmos, solar : the physical cosmos within its limits to the solar system but regarded in esoteric aspects.

Cretaceous [145 – 66 million years ago] : youngest part of the **Mesozoic*.

Cryogenian ['cold birth'] is a geologic period that lasted from 720 to 635 million years ago. It is the second of the three periods of the Neo-Proterozoic era, preceded by the Tonian and followed by the **Ediacaran*. - The Cryogenian was a time of drastic climate changes. (...) the Sturtian **glaciation* began at the beginning of Cryogenian, freezing the entire planet in a state of severe ice house climate known as a snowball Earth. After 70 million years it ended, but was quickly followed by another global ice age, the Marinoan glaciation. There is controversy over whether these glaciations indeed covered the entire planet, or whether a band of open sea survived near the equator, 'slushball Earth'. [en.wikipedia.org 8/24].

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Cretaceous [145 – 66 million years ago] : youngest part of the **Mesozoic*.

cultural periods / epochs = epochs specifically of the *Post-Atlantic age* because Steiner deals primarily with their cultures. Each *cultural period* takes 2160 years, accumulating to 7 * 2160 = 15120 years of the *Post-Atlantic age*.

1st = primordial Indian *cultural period* [7227 - 5067 BCE]. Conserving the dull-unconscious connection to the **spiritual worlds*, the same as during the **Atlantean* **age*. Corresponding to Cancer of the **zodiac*, and planet **Mercury*. In human life corresponding to the 2nd seven years, ages 8 - 14 years : discovering the **ether body* : second dentition, role models.

- 2nd = primordial Persian *cultural period* [5067 - 2907 BCE]. Construing the earliest connection to the physical world : a world of dual notions. Corresponding to Gemini of the *zodiac, and planet Venus. In human life corresponding to the 3rd seven years, ages 14 – 20 years : discovering the **astral body* : puberty.
- 3rd = Assyrian-Babylonian-Chaldean-Egyptian-Hebrew / Jewish *cultural period* [2907 - 747 BCE]. Gradually conserving the **spiritual*. Corresponding to Taurus of the *zodiac, and planet Sun in the geocentric world view {1st of 3 sevens of years}. In human life corresponding to the 4th seven years, ages 21 – 27 years : discovering the **sentient soul* : opening oneself to the world}.
- 4th = Greek-Roman *cultural period* [747 BCE - 1413 CE]. Containing spiritual and physical aspects in equilibrium. Corresponding to Aries of the *zodiac, and planet Sun in the geocentric world view {2nd of 3 sevens of years}. In human life corresponding to the 5th seven years, ages 28 - 34 years : discovering the *reasoning and *mind soul* : crisis of talents.
- 5th = our = Anglo-Saxon-Germanic *cultural period* [1413 - 3573 CE]. The sciences predominating in the beginning. Corresponding to Pisces of the *zodiac, and planet Sun in the geocentric world view {3rd of 3 sevens of years}. In human life corresponding to the 6th seven years, ages 35 – 41 years : discovering the **consciousness soul* : consolidation, questions as to the sense of life.
- 6th = Slav *cultural period* [3573 - 5733 CE]. Corresponding to Aquarius of the *zodiac, and planet Mars. In human life corresponding to the 7th seven years, ages 42 - 48 years : discovering *Manas : creativity, courage.
- 7th = American *cultural period* [5733 - 7893 CE]. Corresponding to Capricorn of the *zodiac, and planet Jupiter. In human life corresponding to the 8th seven years, ages 49-56 years : discovering : composure.

D.

dark matter : nonluminous matter not yet directly detected by astronomers that is hypothesized to exist to account for various observed gravitational effects [Merriam-Webster 12/25]. - In astronomy and cosmology, dark matter is an invisible and hypothetical form of matter that does not interact with light or other electromagnetic radiation. Dark matter is implied by gravitational effects that cannot be explained by general relativity unless more matter is present than can be observed. Such effects occur in the context of formation and evolution of galaxies, gravitational lensing, the observable universe's current structure, mass position in galactic collisions, the motion of galaxies within galaxy clusters, and cosmic microwave background anisotropies. Dark matter is thought to serve as gravitational scaffolding for cosmic structures. After the Big Bang, dark matter clumped into blobs along narrow filaments with superclusters of galaxies forming a cosmic web at scales on which entire galaxies appear like tiny particles. [en.wikipedia.org 12/25].

Deuterostomia , 'mouth second' : Bilaterian animals whose developing embryo's first opening [the blastopore] becomes the anus or cloaca, while the mouth is formed at a different site later on. This was initially the group's distinguishing characteristic, but deuterostomy has since been discovered among protostomes as well. Enclosing chordates [vertebrates among them] and echinoderms [starfish, brittle stars, sea urchins, sand dollars and sea cucumbers, as well as the sessile sea lilies] and others. [en.wikipedia.org, 8/24 , altered]. =/= *Protostomia.

Devachan : *spiritual world*. The *mineral realm* develops from the *devachan* and back there again.

Devonian, [419.2 – 358.9 million years ago] : 4th period of the *Paleozoic [538.8 – 251.9 million years ago].

diapir : [διαπείρειν diapierein = pervade] in geology an area where material rose up from deeper layers, called diapirism. Occurring in the Earth's mantle at a large scale, called mantle plumes above hotspots, initiated by lower density in the lower stratum. [Wikipedia.de].

Dionysius Areopagita oder **Dionysios Areopagites** [Διονύσιος ὁ Ἀρεοπαγίτης; * and † around the first century CE] is the name of a councilor at the Areopague [a rock of 350 feet in the center of Athens. In ancient Greece the highest council sojourned here, called Areopague, too] christened by St. Paul and ordained 2nd bishop of Athens later. A philosopher and theologian around 500 CE adopted the Athenian Areopagite's name and usurped his identity. Mostly he is called Pseudo - Dionysius Areopagita. [Wikipedia.de]. - In the present book as well as with Frieling [1981] most probably Pseudo - Dionysius Areopagita is meant : According to Wikipedia.de «*De Coelesti Hierarchia*» [in ancient Greek Περὶ τῆς Οὐρανίας Ἱεραρχίας 'Concerning the Heavenly Hierarchy'] is a pseudo - Dionysian opus authored in Greek about angels. It is dated to the late 5th or early 6th century. Thomas Aquinas [1225 - 1274] Summa Theologica [I.108] follows Hierarchia [6.7] in the notion of heavenly armies. Pseudo - Dionysius Areopagita subdivided the angels in three hierarchies with three subdivisions each, depending from being near God. These nine quires of angels were adopted by pope Gregory 1st the Great [540 - 604].

Dmanisi hominins : a population of Early Pleistocene hominins whose fossils have been recovered at Dmanisi,

Georgia. The fossils and stone tools recovered at Dmanisi range in age from 1.85 to 1.77 million years old, making the Dmanisi hominins the earliest well-dated hominine fossils in Eurasia and the best preserved fossils of early Homo from a single site so early in time. Though their precise classification is controversial and disputed, the Dmanisi fossils are highly significant within research on early hominine migrations out of Africa. The Dmanisi hominins are known from over a hundred postcranial fossils and five famous well-preserved skulls. [en.wikipedia.org, 12/25].

dyanic = divinely **spiritual*.

dyanic beings = 1st *hierarchy of **spiritual beings* {1} : **seraphim*, **cherubim*, **thrones*. Working from *OLD SATURN* on already.

E.

earth : {1.} local center of the *solar cosmos* ; {2.} **EARTH* ; {3.} as “*earth development*” = **solar cosmos* = all the 7 **planetary development states* with *EARTH* in the middle.

EARTH : 4th = middle **planetary development state*. Consisting of 4 **elements* : *warmth*, *gas-air*, *liquid / water*, and *solid / matter*, as well as of 4 **ethers* : *fire*, *light*, *rhythm*, and *life*. Subdivided into 7 **ages*. The first 3 *ages* iterate the *OLD *planetary development states* in a partial and abbreviated way. For the first time material consistency originates during *EARTH*, getting visible to today's senses. - In mankind only : individual **I*'s originate during the **Atlantean age* as wording : as the aptitude to talk sense ; individual **I*'- **consciousness* during the **Post-Atlantean age*.

Ediacaran : a geological period of the **Neo-Proterozoic Era* that spans 96 million years from the end of the **Cryogenian Period* at 635 million years ago to the beginning of the *Cambrian Period* at 538.8 million years ago. It is the last period of the *Proterozoic Eon* as well as the last of the so-called “*Precambrian supereon*”, before the beginning of the subsequent *Cambrian Period* marks the start of the *Phanerozoic Eon*, where recognizable fossil evidence of life becomes common. - The *Ediacaran* marks the first widespread appearance of complex multicellular fauna following the end of the *Cryogenian global glaciation* known as the *Snowball Earth*. The relatively sudden evolutionary radiation event, known as the *Avalon Explosion*, is represented by now-extinct, relatively simple soft-bodied animal phyla such as *Proarticulata* (bilaterians with simple articulation (...)). Most of these organisms appeared during or after the *Avalon explosion* 575 million years ago and died out during the *End - Ediacaran extinction event* 539 million years ago. Forerunners of some modern animal phyla also appeared during this period. [en.wikipedia.org 9/24].

ecliptic : the great circle of the celestial sphere that is the apparent path of the sun among the stars or of the earth as seen from the sun : the plane of the earth's orbit extended to meet the celestial sphere. [Merriam-Webster 12/25]. - The ecliptic or ecliptic plane is the orbital plane of Earth around the Sun. It was a central concept in a number of ancient sciences, providing the framework for key measurements in astronomy, astrology and calendar-making. From the perspective of an observer on Earth, the Sun's movement around the celestial sphere over the course of a year traces out a path along the ecliptic against the background of stars – specifically the *Zodiac constellations*. The planets of the *Solar System* can also be seen along the ecliptic, because their orbital planes are very close to Earth's. The *Moon's orbital plane* is also similar to Earth's; the ecliptic is so named because the ancients noted that eclipses only occur when the Moon is crossing it. [en.wikipedia.org 12/25]. - Seen from the Earth the Sun seems to move in front of the stars in the background. In fact however it is the Earth orbiting around the Sun which seems fixed in front of the fixed stars. Seen from the Sun the stars in the background seem to rotate contrary to the Earth's motion. After a full orbit of 365 days the orbit is repeated. [Wikipedia.de]

elementary kingdoms / realms : 1st *elementary kingdom / realm* = beings without form, primordially image-like : beings living in fire, on Earth locked-in by gods in air, water, ground. = elementary messengers of spiritually creative *building beings* {gods}. They may be delivered by us after we died if we did well during our life on Earth. Otherwise they remain tied to lives on Earth building our Karma.

2nd *elementary kingdom / realm* = beings creating gestalt : working with everything occurring with the outside senses, e.g. effecting day and night, and are tied to day or night.

3rd *elementary kingdom / realm* = beings around the soul : beings effecting the Moon shining or its darkness, and human sentiments : calmness of the soul will release them ; churlishness, ill humor will tie them to human karma.

4th *elementary kingdom / realm* = created gestalts {*crystal gestalts*} : beings creating the Sun's orbit on Earth, and its workings : seasons, vegetation periods, religious feast days in the rhythm of the year ; are released by our piety.

5th *elementary kingdom / realm* = *plant kingdom* = the *elementary kingdom* perceivable by the senses in gestalts, BUT IN ADDITION THE CREATING BEINGS {= 2nd *elementary kingdom*} ARE WORKING.

J.2. Glossary

6th elementary kingdom / realm = animal kingdom = the elementary kingdom perceivable by the senses in gestalts, and in addition the creating beings {= 2nd elementary kingdom} AND THE BEINGS EFFECTING IN THE SOUL {= 3rd elementary kingdom} ARE WORKING.

7th elementary kingdom / realm = human kingdom = the elementary kingdom perceivable by the senses in gestalts, and in addition the creating beings {= 2nd elementary kingdom} and the beings effecting in the soul {= 3rd elementary kingdom} are working AS WELL AS THE BEINGS BY WHOM THE SPIRIT HIMSELF TAKES SHAPES IN THE SENSORY WORLD IN THE FORM OF THINKING:

elementary particles : In particle physics, an elementary particle or fundamental particle is a subatomic particle that is not composed of other particles. The Standard Model recognizes seventeen distinct particles—twelve fermions and five bosons. As a consequence of flavor and color combinations and antimatter, the fermions and bosons are known to have 48 and 13 variations, respectively. These 61 elementary particles include electrons and other leptons, quarks, and the fundamental bosons. Subatomic particles such as protons or neutrons, which contain two or more elementary particles, are known as composite particles. [en.wikipedia.org 12/25]. - = indivisible subatomic particles, the smallest known building blocks of *matter. From the viewpoint of theoretical physics they are the lowest incitation steps of certain fields. According to what we know by experiments, the standard model of the physics of elementary particles there are in summary

- 6 kinds of quarks with three different colors each,
- 6 kinds of leptons, i.e. three charged leptons and three neutrinos,
- 12 kinds of gauge bosons, namely
 - the photon for the electromagnetic interaction,
 - 8 gluons for the strong interaction,
 - 3 bosons [Z^0 , W^+ , W^-] for the weak interaction,
- and the Higgs - boson.

That makes them 37 elementary particles so far. Antiparticles are to be added : 18 anti-quarks and 6 anti-leptons. The 8 gluons include their antiparticles. The particles photon, Z^0 , and Higgs - boson are themselves their own antiparticles, and W^+ / W^- are their reciprocal antiparticles. So in this way of counting there are 61 kinds of elementary particles.

Matter and the force fields and radiation fields of the strong interaction, the weak interaction, and the electromagnetic interaction consist of these particles in various states and compositions. With the gravitation field and the gravitation waves the underlying particles – gravitons [G] – are hypothetical so far, with dark matter they are completely unknown

The particles mentioned are small in the following sense :

- In experiments there have not been found indications for a diameter different from zero. So theoretically they are assumed punctual.
- According to today's knowledge level they do not consist of still smaller subdivisions.
- Even a small object in practical life contains billion billion billion billion billion billions [10^{21}] of such particles. E. g. a pinhead already consists of just about 10^{21} electrons and 10^{23} quarks. [Wikipedia,de]



• Fig. J.2.E Elementary particles [en.Wikipedia.org].

elementary beings : spiritual beings entrusted with just one task each. They implement changes in *elements effecting what we call phenomena of natural laws. They may be released from their tasks after a human died if we had lived correspondingly affectionately.

elements : for R. Steiner physical matter in his meaning : everything physically material including warmth. As the Greeks of antiquity perceived *spiritual* subjects more sensitively than we do, Steiner considers just their 4 elements : fire, air, water, and ground, describing them more exactly however : as fire-warmth, air-gas, water-liquid, and earthy-solid. They originate during the **planetary development states* as well as their iterations, the **ages*.

eon : [from the ancient Greek : *aión*] denotes individual 'life' or 'life time', then 'a very long span of time', an 'age', or 'eternity'. In a medical context *aión* denoted the spinal marrow as the seat of the life force. [Wikipedia.de]. - In Fig. J.2.a god Aion is represented in the zodiac with the four seasons as well as Tellus (in Latin : "earth", in Roman mythology the goddess of motherly earth, so often named Terra Mater, too, corresponding to Gaia.) [Wikipedia.de].



Fig. J.2.a God Aion. [Wikipedia.de].

eons, aeons : in anthroposophy: = *spirits of motion* = *mights* = *dynamis* = *virtues* = *virtutes* : 2nd grade {2.2} of *gods* {2}.

eons, aeons : in gnosis : from Greek : eternity, spiritual beings complementing their activities one by one.

eons : geologic superordinate concept. There are four : **Hadean* «resembling Hades», **Archean* «primordial eon», **Proterozoic* «early life», and **Phanerozoic* «visible life». **Precambrian* is called super-eon.

era : subordinate concept of aeons / **eons*. Corresponding concept in anthroposophy : **age*.

Eocene [56 – 34 million years ago] middle part of the **Paleogene*, ~ 2nd *Atlantean epoch*.

epoch : subdivision of an age earlier than the *Post-Atlantean *age*. =/= **cultural epoch / period*. - Shortly before dying R. Steiner (26:255 ; LX : 3/8/1925) when speaking of “*this cosmic epoch*” obviously meant today's **planetary development state* : **EARTH*.

equinox : astronomic point of sun rise. Vernal equinox on the 3/21. Autumnal equinox on the 9/21.

erectids = upright walking **apes* ~ **Hominini*.

esotericism : a set of local discrete and occult spiritual practices like : Eastern esotericism , Western esotericism , African esotericism , Chinese esotericism , and Neo-Nazi esotericism. [en.wikipedia.org 12/25]. - From ancient Greek *ἑσωτερικός* *esōterikós* 'internal', 'of the inner parts' in its original meaning is a philosophical school open just to a limited 'inner' circle of persons, contrary to exotericism which is open to the general public. (...) Other traditional meanings refer to an inner, spiritual path of cognition, e.g. synonymous with mysticism, or to a 'higher', 'absolute' wisdom. (...) In our days there is not any generally accepted definition, neither in scientific usage nor in colloquialism. (...) In science two basically different usages have been established : Religious science describes and classifies various forms of religious activities summarized as esoterics. (...) History on the other hand deals with certain currents of western civilization showing certain similarities, and connected to each other historically. (...) In popular parlance esoterics is often understood as «secret teachings». (...) Quite popular, too, is referring to «higher» cognition as well as to ways leading there. (...) In addition the adjective «esoteric» is often used in the meaning of «incomprehensible» or «spun ». [Wikipedia.de].

esotericism [/= **exotericism**] : "Acting according to concrete impulses from the spiritual world we can just aim at. Anthroposophy is a way." (R.Steiner 112:). - "Truths belonging to all of a system of views can mostly only be understood and appreciated in connection to each other. We are calling esoteric their deeper sense which they cannot have by themselves. The deeper sense may become familiar only to who knows all the corresponding circle of views a singular view is part of. Truths which can be understood all at once without any connections, are called **exoteric ones**." (R.Steiner 1, 4/1 : foot note pg 127 , quoted from Hueck pg 20).

ether was known to the Greeks of antiquity just as a single substance. That there is no such physical substance, was proved in 1881 by Albert Michelson [1852 – 1931] (*Debus pg 16 ff*). - Steiner distinguishes 4 ethers which prepare spiritually the 4 *elements* of antiquity (*Marti pg 11, 20 f*). They are spiritual forces, i.e. not discernible with the senses, relied to the life force. Standing between on the one hand "building forces" (*Marti pg 47*), i.e. spiritual forces we cannot differentiate yet and building up the ether forces, and on the other hand the 4 *elements* above wherein the *ethers* may be discerned *physically* and finally *materially*, too.

ether body = life body : spiritual, just clairvoyantly discernible carrier of all life forces. During *EARTH* just with plants, animals, and humans. Keeping long-time workings, =/= *astral body*. Expressing itself in the physical body in the hormone ("glandular") system. Developing ontogenetically especially during the 2nd 7 years. Originating phylogenetically as its 1st anlage from the 2nd anlage of the *physical body* during *OLD SUN* as well as from the *Hyperborean age* on. Creating as the 2nd anlage of the *ether body* the 1st anlage of the *astral body* from *OLD MOON* as well as the *Lemurian age* on.

ether forces : spiritual kinds of ether originating during various *planetary development states* as well as their

J.2. Glossary

repetitions, the *ages*. Forming the corresponding preliminary stages of the *ether bodies* : *fire* = *warmth* = *temperature ether* during *OLD SATURN* as well as from the *Polaric age* on ; *light ether* during *OLD SUN* as well as from the *Hyperborean age* on ; *chemical ether* = *sound* = *rhythm* = *tone* = *numbers ether* during *OLD MOON* as well as from the *Lemurian age* on ; and *life ether* during *EARTH* : from the *Atlantic age* on. Building altogether the *ether body*.

eucaryotes : any of a domain (Eukarya) or a higher taxonomic group (Eukaryota) above the kingdom that includes organisms composed of one or more cells containing visibly evident nuclei and organelles. [Merriam-Webster 10/24]. - **Eukaryota**, organisms whose cells have a membrane-bound nucleus. All animals, plants, fungi, and many unicellular organisms are eukaryotes. They constitute a major group of life forms alongside the two groups of prokaryotes : the bacteria and the archaea. Eukaryotes represent a small minority of the number of organisms, but given their generally much larger size, their collective global biomass is much larger than that of prokaryotes. [en.wikipedia.org 10/24].

chemical evolution = *abiogenesis.

F.

feldspar : any of a group of crystalline minerals that consist of aluminum silicates with either potassium, sodium, calcium, or barium and that are an essential constituent of nearly all crystalline rocks [Merriam-Webster, 9/24]. - A group of rock-forming aluminium tectosilicate minerals, also containing other cations such as sodium, calcium, potassium, or barium. The most common members of the feldspar group are the plagioclase (sodium-calcium) feldspars and the alkali (potassium-sodium) feldspars. Feldspars make up about 60% of the Earth's crust and 41% of the Earth's continental crust by weight. Feldspars crystallize from magma as both intrusive and extrusive igneous rocks and are also present in many types of metamorphic rock. Rock formed almost entirely of calcic plagioclase feldspar is known as anorthosite. Feldspars are also found in many types of sedimentary rocks [en.wikipedia.org, 9/24]. Largest part of granite.

fetalization : remaining in a fetal state.

fire ether = **warmth ether** = **temperature ether** : originates during *OLD SATURN* as well as its iteration = the *Polaric *age* = **Polaris*. Creates the **element fire / warmth*.

form state : subdivision of the *mineral realm*. We are in the middle one of 7 form states : *physical form state* = *mineral-physical *EARTH*.

G.

GA : Gesamtausgabe, Rudolf Steiner Verlag. = CW.

gas planets : planets consisting of gas to at least a lion's share : Jupiter and Saturn. The planets Uranus and Neptune, orbiting even further away from the Sun, are called **ice giants* because of their content of ice.

Gestalt = matter part of a form.

geosynclines : great downward flexures of the earth's crust [Merriam-Webster 9/24]. = continental shoals / swales. - **geosyncline** [originally called a **geosynclinal**] is an obsolete geological concept to explain orogens, which was developed in the late 19th and early 20th centuries, before the theory of plate tectonics was envisaged. A geosyncline was described as a giant downward fold in the Earth's crust, with associated upward folds called **geanticlines** [or **geanticlinals**], that preceded the climax phase of orogenic deformation. [en.wikipedia.org 12/25].

geosynclinal theory : Dana and Stille supposed that the collapse of geosynclines into orogens was result of the Earth's contraction over time. In Stille and Kober's view, geosynclines and orogens were the unstable parts of the Earth's crust, in stark contrast with the very stable kratogens. Stille theorized that the contractional forces responsible for geosynclines also formed epeirogenic uplifts, resulting in a pattern of undulation in the Earth's crust. According to this view, regular, episodic global revolutions caused geosynclines to collapse, forming orogens. According to Kober and Stille, developing geosynclinal depressions were accompanied by uplifted geanticlines, which then eroded, providing sediments that filled the geosynclinal basin. According to Stille, geosynclines were formed from crustal folding rather than faulting; if faults were present in geosynclines, they were the product of later processes, such as the final collapse of the geosyncline. [en.wikipedia.org 12/25].

Glaciations : during the Paleozoic [2,500 - 542 million years ago] resulting in «snowball Earth» [all frozen] or «slush-ball Earth» [mostly frozen] : during the Paleo-Proterozoic [2,500 - 1,600 million years ago] : Huronian glaciation [2,500 - 2,200 million years ago] ; during the Cryogenian [720 - 635 million years ago] : ?Kaigas glaciation ? [~ 750 million years ago] , Sturtian glaciation [~ 717 - 660 million years ago] , and Marinoan glaciation [~ 650 - 632 million years ago] ; and during the Ediacaran [635 - 541 million years ago] : Gaskiers glaciation [~ 579 million years ago] . [en.wikipedia.org 9/24]. - =/= **ice age*.

Gneisses : A common and widely distributed type of metamorphic rock. It is formed by high-temperature and

high-pressure metamorphic processes acting on formations composed of igneous or sedimentary rocks. This rock is formed under pressures anywhere from 2 to 15 kbar, sometimes even more, and temperatures over 300°C (572°F). Gneiss nearly always shows a banded texture characterized by alternating darker and lighter colored bands and without a distinct cleavage [en.wikipedia.org, 9/24].

Gundeshapur (Middle Persian: *Weh-Andiōk-Sābuhr*; New Persian: گندی‌شاپور, *Gondēshāpūr*) was the intellectual centre of the Sasanian Empire founded by the Sasanian emperor Shapur I. Gundeshapur was home to a teaching hospital and had a library and an ancient higher-learning institution, the Academy of Gondishapur. The city declined after the Muslim conquest of Persia; the city surrendered in 638. It continued to remain an essential centre in the Islamic period. [en.wikipedia.org 12/25].

gods = 2nd **hierarchy of *spiritual beings* {2}.

gods' messengers = **angeloi* {3.3}.

granite : consisting of «feldspar, quartz, and mica, I won't forget them eva». - Granite originates when magma petrifies within the Earth's crust, mostly 2 km or more under the Earth's surface. - A very hard natural igneous rock formation of visibly crystalline texture formed essentially of quartz [Merriam-Webster, 9/24]. - A coarse-grained (...) rock composed mostly of quartz, (...) forms from magma with a high content of silica and alkali metal oxides that slowly cools and solidifies underground. It is common in the continental crust of Earth. [en.wikipedia.org, 9/24].

group-'I' : a **spiritual *hierarchy* adopting the functions of the 'I' for an animal species. The same for man emerging as long as they cannot do so themselves : as far as the **Lemurian age*.

Guardian *angel : one or up to many **spiritual beings* caring for me and my beloved when I do not get along with my insufficiencies. - Subjective-functional umbrella term for all the *spiritual beings* we asking to guard us : our *eternal 'I', angels in the strict sense* {3.3} as well as *spiritual beings* from all the higher **hierarchies* up to all saints, Mary, the Christ, or God.

H.

Hadean «similar to Hades» : earliest eon [? 4.57 – 4.0 ? billion years ago], corresponding ~ to the **Hyperborean age*.

1st hierarchy of *spiritual beings = **Dyanic beings* {1} : **seraphim* {1.1}, **cherubim* {1.2}, **thrones* {1.3}.

2nd hierarchy of *spiritual beings = *gods* {2} : **spirits of wisdom* {2.1} / *of motion* {2.2} / *of form* {2.3}.

3rd hierarchy of *spiritual beings = **angels* in the broad sense {3} : **spirits of personality* {3.1}, **archangels* = *fire spirits* {3.2}, **angeloi* = *angels* in the strict sense {3.3}.

Holocene «completely new» [11.7 thousand years up to our days], = post-ice age, = late part of the **Quaternary*. Early part of the **Post-Atlantean age*.

hominids : erect bipedal **primate mammals* that includes recent humans together with extinct ancestral and related forms and the great **apes* [Merriam-Webster, 11/25].

hominine fossils of Dmanisi [south Georgia] : see **Dmanisi*.

hominins = **hominids* + extinct ancestral and related forms, except the precursor forms he has in common with chimpanzees. I. e. **Australopithecus* and **Paranthropus*. Contested : **Sahelanthropus*, **Orrorin*, and **Ardipithecus*. See **erectids*.

hominoids : **hominids* + *Gibbons*.

human : a **spiritual being* living in a human body nowadays although he had other shapes during pre-lives on his developmental road. Steiner's connotation may be seen justified as such beings became humans up to today. To our authors' minds D. Bosse (*e.g. 2012 pg 61*) writes more exactly of the “*human spiritual core*”. Again and again Steiner (*e.g. 288, 12/30/1921, quoted from Bosse 2002 pg 454*), emphasizes that man “*was organized all differently*” in early days than today, and humans looked all differently than in our days. He just indicated however their material shapes in outline, or described them as “*similar to jellyfish*” (*R.Steiner 346:167*). According to anthroposophic developmental world view man repelled all the other living beings and everything, rocks, too, in the course of his development. - On the other hand evolution in Darwin's meaning confines itself to the purely physical development of plants and animals as far as humans. Whether we shall name man by his state of our days, independently from what he looked like physically on his developmental path, or - on the other hand - as having reached his present shape after a long evolution of most various aspects, species, and names, may be left to the reader. - Delor (*e.g. 7:326*) found an intermediate position by differentiating the “*human 'I'*” from the “*ancestor of humans lacking an 'I'*”. Whenever Steiner spoke of “*man*”, and did not mean today's, the reader might add in his mind : «namely the becoming or evolving core of man / the anlage of future man - in a shape possible during the respective **planetary development state or *age*».

Hyperborea (in ancient Greek Ὑπερβορέα) is a fabulous paradisiac country localized far up north by ancient Greek geographers or mythographers. Its inhabitants, the Hyperboreans (Ὑπερβόρειοι Hyperbore(i)oi), were ascribed a close relation to god Apollon and his worship. - Ancient etymology

of the name "further north than north" (Boreas being the god of the northern wind) is supposed to be unsure. A derivation from northern Greek *βόρις *boris mountain may be thought of, indicating a home "the other side of the maintains". - In the 19th and 20th centuries occultists and right-wing esoterics usurped this myth. [Wikipedia.de 9/24].

Hyperborean : a member of a people held by the ancient Greeks to live beyond the north wind in a region of perpetual sunshine [Merriam-Webster 9/24]. - A mythical people who lived in the far northern part of the known world. Their name appears to derive from the Greek ὑπὲρ Βορέα, "beyond Boreas" (the God of the north wind) or "far north". Some scholars prefer a derivation from ὑπερφέρω (*hyperpherō*, "to carry over"). [en.wikipedia.org 9/24].

Hyperborean age : 2nd *age of the **mineral-physical form state* of the **Earth*. Iterating *OLD SUN* : originating space and containing 2 **elements* (*warmth* and *gas / air*) , as well as 2 *ethers* (*fire ether* and *light ether*).

I.

'I', eternal : The 'I' chaperoning the individual *'I' in the **spiritual world* safeguardingly over the incarnations.
'I', individual : conductor of the individual soul, =/= *group-'I'*. On earth with humans only, and with the higher **spiritual hierarchies*. In the physical body expressing itself in the blood. Originating phylogenetically during the **Atlantean age* ; ontogenetically in our days from 21 years old on, i.e. in the 7-year-phases : **Imagination, Inspiration, and Intuition*.

ideas : the „*objective / true / real truths*“. We attain them when overcoming anything personal.

ice ages : partial icing of the Earth : during the Paleozoic [541 - 251.9 mya] : Karoo ice age [360 - 289 mya] ; and during the Cenozoic [66 - 2.588 mya] : Paleogene [66 - 23.03 mya] : late ice ages [34 mya - present]. Cf. *glaciations*.

ice age : Pleistocene «the newest» [2,588 – 11.7 thousand years ago]. First part of the **Quaternary* [2,588 million years ago up to today], followed by the post-ice-age = Holocene «completely new» [11.7 thousand years ago up to today].

ice ages during the Proterozoic [2500 - 538.8 million years ago] = ***glaciations** : The series of the Cryogenian contains the Sturtian [~ 717 – 660 million years ago] and the Marinoian ice age [~ 650 – 632 million years ago] with approximately global **glaciation*, see **snowball earth*. The extension of glaciation however is contested ; possibly there existed regions without ice near the equator. Some understandings assume rather a “slushball earth”. - The following Gaskiers glaciation [~ 579 million years ago] is in the late Ediacarian already. Possibly another glaciation preceded the Sturtian one, the so-called Kaigas glaciation [~ 750 million years ago], but is not documented very clearly. [Wikipedia.de 9/24].

ice giant : a giant planet composed mainly of elements heavier than hydrogen and helium, such as oxygen, carbon, nitrogen, and sulfur. There are two ice giants in the Solar System: Uranus and Neptune. [en.wikipedia.org 12/25]. - = giant planets consisting mainly of volatile chemical compounds such as water, ammonia, or methane and containing a huge atmosphere of light elements. There are two ice giants in the solar system, Uranus and Neptune. While searching for the hypothetical planet Nine an ice giants is reckoned with. [Wikipedia.de]. =/= gas planets.

ideas : the „*objective / true / real truths*“. We attain them when overcoming anything personal.

to imagine : “*The activity which the soul performs by giving itself over to what is confronting it, perceiving what is a finished image (...)*.” (R.Steiner 26:50, XVIII : 5/18/1924). What is confronting, is a notion. The finished image is an effigy of the soul.

imagination, *inspiration, and *intuition : in this sequence steps how today's human may approach the **spiritual world*. In CW 10 R. Steiner recommends specific exercises strengthening the will and slackening the ties in thoughts of the material world, and so of Lucifer and Ahriman.

imagination = an image of a notion independent of the hereabouts world of senses which can create memories only, so coming from the **spiritual worlds* : the first step into the *spiritual worlds*. All 3, *imagination, inspiration, and intuition*, are the *spiritual worlds'* presents to us. In the **supersensible* = *spiritual worlds* they do not change, but in the world of human notions *imaginings* are perceived as images from the *spiritual worlds* : variable according to our momentary capacity to perceive and accept the *spiritual*. Surely we do not wish to perceive the *spiritual* all the time. Just because our notions are personal images valid just for the moment, we are left free with any non-sensory notion (= *imagination*) to decide to follow our path into the *spiritual* - or not. Because of this freedom to decide we need to be resolute and forceful for any *imagination*. This resolution cannot come from reason - Lucifer's world - but in our cultural area from nothing but love to discover the neighbor in his essence (= in the *spiritual*), i.e. from the power of the *Christ's impulse*, with archangel Michael's power leading us there (R.Steiner 26:243 ff, LVIII : 2/22/1925).

incarnation : A **spiritual being* or a **soul* incorporates into a **physical body* taking over its characteristics.

incorporation : A **spiritual being* or a **soul* incorporates into a **physical body*, yet keeping its own original characteristics.

initiation : a rite of passage marking entrance or acceptance into a group or society. It could also be a formal admission to adulthood in a community or one of its formal components. In an extended sense, it can also signify a transformation in which the initiate is 'reborn' into a new role. Examples of initiation ceremonies might include Christian baptism or confirmation, Jewish bar or bat mitzvah, acceptance into a fraternal organization, secret society or religious order, or graduation from school or recruit training. A person taking the initiation ceremony in traditional rites, such as those depicted in these pictures, is called an initiate. [en.wikipedia.org 9/24]. - Ways to approach spiritual worlds during present life. During the *cultural epochs there were more and more initiates capable of initiation. Until Steiner integrated initiation into everyday life. Today it comes to us via the present Michael age,

initiation, purely Christian : 1st meditation step : the Maundy [foot washing] because what is higher cannot exist without the lower.

2nd meditation step : flagellation to sustain pains and slashes of life.

3rd meditation step : crowning with thorns to sustain derision and jeers.

4th meditation step : crucifixion so to estrange from the body.

5th meditation step : mystical death, descending into the hell of self-cognition --> severing the curtain when entering the *spiritual world*.

6th meditation step : entombment and resurrection : everything on Earth is united to me in its terrestrial existence, up to the planet's deepest sul = the Christ's soul.

7th meditation step : ascension.

initiation, oriental : 1st grade : raven : conveys the states of the external world to higher initiates, e.g. Elias' ravens, Wotan's ravens, or Barbarossa's ravens.

2nd grade : the occult one : leading an occult life.

3rd grade : the combatant : may stand out for occult teachings.

4th grade : "lion" : may stand out for occult teachings with magic activity.

5th grade : named according to one's home country : is completely absorbed in public sentiment.

6th grade : Sun hero.

7th grade : Father.

initiation, Rosicrucian : 1. meditation step : studies to engross the mind in supersensible cognition = in thoughts not of the physical world but of higher worlds.

2nd meditation step : imaginative cognition as during the **planetary development state *OLD SATURN* : discovering the inner spirituality of any being on Earth ; working on the **ether body* --> into the blood which transfigures the body then.

3rd meditation step : reading occult scriptures = having working on himself not just single images {=2nd }, but the relation of images to each other = ranging the power lines running through the world, by imagination of shapes and colors.

4th meditation step : preparing the philosopher's stone : rendering unnecessary the plant part of the respiratory system by respiratory exercises.

5th meditation step : *macrocosmos* and *microcosmos* corresponding to each other.

6th meditation step : living into the *macrocosmos*.

7th meditation step : divine bliss.

inspiration : "The experience unfolding in the soul to apprehend an image {a notion} in the becoming (...)." (R.Steiner 26:50, XVIII : 5/18/1924). Inspiration conveys reliving one's own past lives.

intuition : Perceiving an image-notion in a forefeeling way, i.e. before it originates (R.Steiner 26:50, XVIII : 5/18/1924). *Intuition*, the highest contact to the **spiritual worlds* for humans, conveys **objective cognition of the *spiritual beings*. - In our days we understand by *intuition* something more general, like divining / calm brain wave.

J.

JUPITER : 5th **planetary development state*.

JUPITER consciousness = imagination consciousness = clear daytime consciousness + deeply dreaming consciousness : As **angels* in our days ?

Jurassic [201.3 – 145 million years ago], middle section of the **Mesozoic*.

juvenilization : the delaying or slowing of the physiological, or somatic, development of an organism, typically an animal. Juvenilization in modern humans is more significant than in other primates. = **neoteny*, =/= **progenesis* or **paedogenesis*. Both juvenilization / neoteny and progenesis result in **paedomorphism* (as having the form typical of children) or **paedomorphosis* (changing towards forms typical of children). [en.wikipedia.org 3/26].

K.

Kali Yuga : small Kali Yuga : dark age or age of the black goddess Kali [3102 BCE - 1899 CE] ; or : great Kali Yuga : age of demon Kali, of strife [3102 BCE – 428,899 CE] : in Hinduism, is the fourth, shortest, and worst of the four *yugas* [world ages] in a *Yuga Cycle*, preceded by *Dvapara Yuga* and followed by the next cycle's *Krita [Satya] Yuga*. It is believed to be the present age, which is full of conflict and sin. According to Puranic sources, Krishna's death marked the end of *Dvapara Yuga* and the start of *Kali Yuga*, which is dated to 17/18 February 3102 BCE Lasting for 432,000 years (1,200 divine years), *Kali Yuga* began 5,125 years ago and has 426,875 years left as of 2024 CE. *Kali Yuga* will end in the year 428,899 CE. [en.wikipedia.org 8/25].

Kant-Laplace theory : see *Nebular hypothesis.

Karma [/'kɑ:rmə/, from Sanskrit: कर्म, IPA: ['kərmə] ; Pali: kamma] is an ancient Indian concept that refers to an action, work, or deed, and its effect or consequences. In Indian religions, the term more specifically refers to a principle of cause and effect, often descriptively called the principle of karma, wherein individuals' intent and actions (cause) influence their future (effect): Good intent and good deeds contribute to good karma and happier rebirths, while bad intent and bad deeds contribute to bad karma and worse rebirths. In some scriptures, however, there is no link between rebirth and karma. [en.wikipedia.org 12/25].

Karma : destiny formed by earlier lives, and forming coming lives. „(...) *between life and death* (...) {man} will *essentially* become an effigy of what he *did* on Earth. Then when re-entering the Earth he will configure his physical life out of what is essential in him. The spiritual, ruling in destiny, can find its physical realization only if its corresponding causes withdrew into the spiritual area *before* they were realized. Because what is going to live by destiny, can realize itself *from* the spiritual only, not following physical occurrences.“ (R.Steiner 26 , leading thought no. 43 , XX : 6/1/1924).

Kuiper belt : a circumstellar disc in the outer Solar System, extending from the orbit of Neptune at 30 astronomical units [AU] to approximately 50 AU from the Sun. It is similar to the asteroid belt, but is far larger—20 times as wide and 20–200 times as massive. Like the asteroid belt, it consists mainly of small bodies or remnants from when the Solar System formed. While many asteroids are composed primarily of rock and metal, most Kuiper belt objects are composed largely of frozen volatiles (termed "ices"), such as methane, ammonia, and water. The Kuiper belt is home to most of the objects that astronomers generally accept as dwarf planets: Orcus, Pluto, Haumea, Quaoar, and Makemake. Some of the Solar System's moons, such as Neptune's Triton and Saturn's Phoebe, may have originated in the region. [en.wikipedia.org 12/25]. see *Oort cloud.

L.

lava : molten rock that issues from a volcano or from a fissure in the surface of a planet (such as earth) or moon, also : such rock that has cooled and hardened [Merriam-Webster, 9/24]. - Molten or partially molten rock (magma) that has been expelled from the interior of a terrestrial planet (such as Earth) or a moon onto its surface. Lava may be erupted at a volcano or through a fracture in the crust, on land or underwater, usually at temperatures from 800 to 1,200 °C (1,470 to 2,190 °F). The volcanic rock resulting from subsequent cooling is also often called *lava* [en.wikipedia.org, 9/24].

life body = *ether body.

life ether : originating during *EARTH*, during the present **Post-Atlantean* *age.

life spirit = *Buddhi*=*Budhi*.

life sphere : an area of the *Earth's *atmosphere where living beings develop in a hovering state. Consisting of a mixture of humidity and gases, containing proteins. In the beginning not consisting at all of water and oxygen.

Lemuris : sunken continent in the Indic between today's Madagascar and the Indian - Pacistani subcontinent.

Lemuris = *Lemurian* *age : 3rd *age of the *material-physical form state* of **EARTH*, (~ ?720? - ~ 66 million years). Ending because of mankind's Ahrimanic offenses.

life state : subdivision into 7s of the 7 *planetary development states*. The *EARTH's* 7 life states, see vol. I , part 4 , chapter I.2. : 3 *elementary realms*, *mineral kingdom*, *plant kingdom*, *animal kingdom*, *human kingdom*.

life states of the EARTH : 1st - 3rd *life state* = 1st -3rd *elementary realms*. 4th *life state* = *mineral kingdom*.

5th *life state* = *plant kingdom* = the *elementary realm* with *gestalts* perceivable to the senses, BUT IN ADDITION CREATING BEINGS {= 2nd *elementary realm*} ARE WORKING.

6th *life state* = *animal kingdom* = the *elementary realm* with *gestalts* perceivable to the senses, but in addition creating beings {= 2nd *elementary realm*} are working AND SO ARE THE BEINGS THAT LIVE OUT PSYCHICALLY {= 3rd *elementary realm*}.

7th *life state* = *human kingdom* on *EARTH* = the *elementary realm* with *gestalts* perceivable to the senses, but in

J. Lexical Part

addition creating beings {= 2nd *elementary realm*} are working and so are the beings that live out psychically {= 3rd *elementary realm*} PLUS WHEN THE SPIRIT HIMSELF FORMS THOUGHTS IN THE SENSORY WORLD:

Light ether : originating during *OLD SUN* and its iteration the **Hyperborean *age*.

Lithosphere «rock sphere» : 5 - 10 km on the ocean floor, 60 - 100 km under continents. Earth's crust, and uppermost layer of the Earth's mantle, all the Earth's surface, including ocean floors as well. Shifted by the asthenosphere. Containing only .4 % of the Earth's mass.

LUCA : The last universal common ancestor (LUCA) is the hypothesized common ancestral cell from which the three domains of life, the Bacteria, the Archaea, and the Eukarya originated. The cell had a lipid bilayer [or phospholipid bilayer : a thin polar membrane made of two layers of lipid molecules. These membranes are flat sheets that form a continuous barrier around all cells] ; it possessed the genetic code and ribosomes which translated from DNA or RNA to proteins. The LUCA probably at latest 3.6 billion years ago, and possibly as early as 4.3 billion years ago or earlier. [en.wikipedia.org 10/24].

Lucifer «carrier of light» : accompanying mankind since the temptation at the tree of knowledge about good and evil, ~ the middle of the **Lemurian *age*. Intending to reign over the **astral *body* / individual soul as well as that of all mankind by promising hereabouts spiritual fulfillment at short notice, so giving the person a feeling of being great, short of narcissism, =/= *Ahriman*.

M.

magma : molten rock material within the earth from which igneous rock results by cooling [Merriam-Webster, 9/24].

maja = illusion : pretending **objektivtyo*, mostly in the world of sensory perceptions. A view from the 1st = primordial Indian **cultural period* of the **Post-Atlantean *age*.

manas = **spirit *self*, 3rd highest of the *members-of-the-being*. Mankind's development aim during the 5th **planetary development state* = **JUPITER*.

Mani [216 – 274 / 277] was an Iranian prophet and the founder of **Manichaeism*, a religion most prevalent in late antiquity. Mani was born in or near Ctesiphon (south of modern Baghdad) in Mesopotamia at the time part of the Parthian Empire. Seven of his major works were written in Syriac, and the eighth, dedicated to the Sasanian emperor Shapur I, was written in Middle Persian. He died shortly after being imprisoned by Bahram I in **Gundeshapur*. [en.wikipedia.org, 12/25].

Manichaeism[a] [in Persian : *أَئِين مَانِي*, romanized: *Ā`īn-i Mānī*; Chinese: 摩尼] was a major world religion founded in the third century CE by the Parthian Iranian prophet **Mani* in the Sasanian Empire. It taught an elaborate dualistic cosmology describing the struggle between a good spiritual world of light, and an evil material world of darkness. Through an ongoing process in human history, light is gradually removed from the world of matter and returned to the world of the divine. - Mani's teachings were intended to integrate, succeed, and surpass the "partial truths" of various prior faiths and belief systems, including Platonism, Christianity, Zoroastrianism, Buddhism, Marcionism, Hellenistic and Rabbinic Judaism, Gnosticism, Ancient Greek religion, Babylonian religion, other ancient Mesopotamian religions, and the Greco-Roman mysteries. Some forms of Manichaeism viewed Mani as the final prophet after Zoroaster, the Buddha, and Jesus. The canon of Manichaean scripture included seven works attributed to Mani, written originally in the Syriac language. Manichaean sacramental rites included prayers, almsgiving, and fasting. Communal life centered on confession and the singing of hymns. - With its message of universal salvation and emphasis on active proselytism, Manichaeism was quickly successful and spread throughout Aramaic-speaking regions, the Mediterranean, and the Middle East. It thrived between the third and seventh centuries CE, and at its height was one of the most widespread religions in the world. Manichaean churches and scriptures existed as far east as China and as far west as Roman Iberia. Before the spread of Islam, Manichaeism was briefly the main rival to early Christianity. It was increasingly persecuted both by the Roman state and the nascent Christian church, largely disappearing from Roman lands by the end of the sixth century. - Manichaeism survived and expanded in the East. It maintained its historic presence in West Asia until being repressed by the latter Abbasid Caliphate rulers in the 10th century. Trade and missionary activity brought Manichaeism to Tang China in the seventh century, where it developed into its own local form. Manichaeism was the official religion of the Uyghur Khaganate until its collapse in 830; shortly thereafter, it was banned by the Tang court but experienced a resurgence under the later Mongol Yuan dynasty during the 13th and 14th centuries. Continued persecution by Chinese emperors led to Manichaeism becoming subsumed into Buddhism and Taoism before the end of the 14th century. - Some historic Manichaean sites still exist in China. [en.wikipedia.org, 12/25].

manvantara = *OLD planetary development state* = revelation state (*S.O. Prokofieff pg 34*), =/= **Pralaya*.

material (anthroposophic) : in visible form, = *mineral-physical* {IV}.

matter [scientific] : ubiquitous in universe since the singularity. - *Dark matter.

maja = illusion : pretending *objectivity, mostly in the world of sensory perceptions. A view from the 1st = primordial Indian **cultural period* of the **Post-Atlantean* *age.

maya : the sense-world of manifold phenomena held in Vedanta to conceal the unity of absolute being [Merriam-Webster 12/'25]. - **Maya** : literally "illusion" or "magic", has multiple meanings in Indian philosophies depending on the context. In later Vedic texts, *māyā* connotes a "magic show, an illusion where things appear to be present but are not what they seem"; the principle which shows "attributeless Absolute" as having "attributes". *Māyā* also connotes that which "is constantly changing and thus is spiritually unreal" (in opposition to an unchanging Absolute, or Brahman), and therefore "conceals the true character of spiritual reality". - In the Advaita Vedanta school of Hindu philosophy, *māyā*, "appearance", is "the powerful force that creates the cosmic illusion that the phenomenal world is real". In this nondualist school, *māyā* at the individual level appears as the lack of knowledge (*avidyā*) of the real Self, Atman-Brahman, mistakenly identifying with the body-mind complex and its entanglements. [en.wikipedia.org 12/'25].

Jan Mayen : a Norwegian volcanic island in the Arctic Ocean with no permanent population. [en.wikipedia.org 12/'25].

meditation : a practice in which an individual uses a technique to train attention and awareness and detach from reflexive, "discursive thinking", achieving a mentally clear and emotionally calm and stable state, while not judging the meditation process itself. - Techniques are broadly classified into focused [or concentrative] and open monitoring methods. Focused methods involve attention to specific objects like breath or mantras, while open monitoring includes mindfulness and awareness of mental events. - Meditation is practiced in numerous religious traditions, though it is also practiced independently from any religious or spiritual influences for its health benefits. The earliest records of meditation [*dhyana*] are found in the Upanishads, and meditation plays a salient role in the contemplative repertoire of Jainism, Buddhism and Hinduism. Meditation-like techniques are also known in Judaism, Christianity and Islam, in the context of remembrance of and prayer and devotion to God. - Asian meditative techniques have spread to other cultures where they have found application in non-spiritual contexts, such as business and health. Meditation may significantly reduce stress, fear, anxiety, depression, and pain, and enhance peace, perception, self-concept, and well-being. Research is ongoing to better understand the effects of meditation on health [psychological, neurological, and cardiovascular] and other areas. [en.wikipedia.org 12/'25].

meditation {passive}: "*cogitating introspectively and contemplatively*". "*In every person there are capacities slumbering whereby to achieve cognitions about higher worlds.*" (R.Steiner 10:16).

"To the student of occultism such calm cogitation should become a natural necessity in life. At first he is totally sunken into a world of thinking. He needs to develop a living feeling for such a calm activity of mind. He needs to learn to love whatever the spirit has streaming to him. He will soon stop perceiving the world of thinking as being less realistic than the everyday things all around him. He will begin dealing with his thoughts the same as with the things in the room. That is when the moment will approach when he will feel whatever is opening up to him in the quiet of inner thoughtfulness, as much higher, more real than the things around in the room. He will experience life expressing itself in this world of thoughts. He will agree that they are not mere shadowy images that are living in thoughts but, that hidden beings are speaking to him. Before he heard tones through the ear ; now it is toning through the soul. An inner language - an inner word - opens up to him. Ensouled to the highest degree, this is what the student of occultism experiences in this very moment for the first time. An inner light outpours over all the outer world of his. A second life is beginning to him. Through him a stream of a divine world pours out, a world ensouled by God. -

Such a kind of ensouled life in thoughts is what the gnosis, occult science, calls meditation (cogitating introspectively and contemplatively). It will enlarge more and more to a life in spirituality. This kind of meditation is the means towards supersensible cognition. -

(...) Because of meditation like this there is a complete transformation going on in the student of occultism. He begins developing completely new notions. Everything values differently to him." (R.Steiner 10:37 ff).

Meditation is an activity in complete freedom :

"Once a person begins meditating he will act in the only way that is completely free in present human life. ... We are completely free in that. This kind of meditating is an activity that is completely free." (R.Steiner 214 : 8/20/1922).

meditation, active : activities with a regardfully meditating mind. [Wikipedia.de].

members-of-the-being : essential parts of a being. Non-living things just contains one : **matter*. Plants contain 2 : *matter* and the **ether *body*. Animals contain 3 : the **astral body* in addition. On Earth, only humans contain 4 : the 'I' in addition. If a being cannot form a member-of-the-being yet, this is done by **spiritual* beings in its stead until the being can do so himself. With humans they are to be developed in the future **planetary development states* : **spirit self* = **Manas* ; **life spirit* = **Bu(d)dhi* ; **spirit man* = **Atma(n)*.

- 1st = earliest human *member-of-the-being* : **physical *body* , originating during *OLD *SATURN*.
- 2nd human *member-of-the-being* : **ether *body* , originating during *OLD *SUN*.
- 3rd human *member-of-the-being* : **astral *body* , originating during *OLD *MOON*.
- 4th human *member-of-the-being* : 'I' , originating during the **Atlantic *age*. In the 'I' there are preformed the 3 **spirit grades* man ma attain : the 5th - 7th human *member-of-the-being* :
- 5th human *member-of-the-being* : **spirit self* = **Manas*.
- 6th human *member-of-the-being* : *life *spirit* = **Buddhi=Budhi*.
- 7th human *member-of-the-being*: **spirit man* = **Atma(n)*.

Mesozoic : era of «intermediate life» = 'Erdmittelalter', middle era [252 – 66 million years ago] of the **Phanerozoic* [538.8 million years ago up to our days]. Corresponding to ~ late **Lemurian *age* [?720? - 66 million years ago].

mica : Any of various colored or transparent mineral silicates crystallizing in monoclinic forms that readily separate into very thin leaves [Merriam-Webster, 9/24]. - A group of silicate minerals whose outstanding physical characteristic is that individual mica crystals can easily be split into extremely thin elastic plates [en.wikipedia.org, 9/24].

mind soul = reasoning & mind soul : consciousness of the Greco-Roman = 4th **cultural period* [747 BCE – 1413 CE]

Mineral kingdom / realm : middle one of the 7 **life states* of *EARTH*. During its 7 **form states* the Earth develops from the **spiritual world* into the **mineral* one and back into the *spiritual world*. Consisting of **mineral-physical* substance while the *EARTH* consists of **material* substance among others.

Miocene [23 – 5.333 million years ago] : early part of the **Neogene* [23.03 – 2.588 million years ago]. Corresponding to ~ the 4th - 6th **Atlantian epoch*.

(OLD) MOON : 3rd **planetary development state*, earlier than *EARTH*. Containing the **ethers* : *fire, light, and tone*, as well as the **elements* : *warmth, gas-air, and liquid / watery*. Originating additional physical consistency ? Becoming audible with today's senses ? - From the **spiritual *human core* something mineral originated that became plants today. Over 7 **epochs* there developed - after having iterated the *OLD SATURN* state and the *OLD SUN* state - the 3rd preliminary stage of **physical body* of the *spiritual human core*, the 2nd preliminary stage of his **ether body*. and the 1st preliminary stage of his **astral body*. In our days *astral bodies* exist as something sensitive just in animals and humans. - *Deeply dreaming *consciousness* as with animals in our days. - Iterated during the **Lemurian *age*.

monosexuality is romantic or sexual attraction to members of one sex or gender only. A monosexual person may identify as heterosexual or homosexual [en.wikipedia.org 10/24].

-mundtiere : **Neu- / *Urmundtiere*.

mycelium : root-like structure of a fungus [en.wikipedia.org 3/25].

N.

nebular hypothesis : the most widely accepted model in the field of cosmogony to explain the formation and evolution of the Solar System [as well as other planetary systems]. It suggests the Solar System is formed from gas and dust orbiting the Sun which clumped up together to form the planets. The theory was developed by Immanuel Kant and published in his *Universal Natural History and Theory of the Heavens* [1755] and then modified in 1796 by Pierre Laplace. Originally applied to the Solar System, the process of planetary system formation is now thought to be at work throughout the universe. The widely accepted modern variant of the nebular theory is the solar nebular disk model [SNDM] or solar nebular model. It offered explanations for a variety of properties of the Solar System, including the nearly circular and coplanar orbits of the planets, and their motion in the same direction as the Sun's rotation. Some elements of the original nebular theory are echoed in modern theories of planetary formation, but most elements have been superseded. [en.wikipedia.org 12/25].

Neogene «new stock» [= new tertiary, unused] [23 – 2.588 million years ago] : middle part of the **Cenozoic* [66 – 2.588 million years ago]. Corresponding to the ~ 3rd + 4th **Atlantean *epochs*, < middle of the **Atlantean *age*.

neoteny : the delaying or slowing of the physiological, or somatic, development of an organism, typically an

animal. Neoteny in modern humans is more significant than in other primates. = *juvenilization, /= *progenesis or *paedogenesis. Both neoteny and progenesis result in *paedomorphism (as having the form typical of children) or *paedomorphosis (changing towards forms typical of children).
[en.wikipedia.org 3/'26].

nominalism : originated [Roscelinus Compendiensis, [1050 - 1124], taught Peter Abaelard] during Scholasticism [late : William of Ockham, [1288 – 1347]], becoming the philosophy of the sciences during the 19th century.

nominalism ; “(...) *the world of ideas was just a sum of set phrases in the human soul without any rooting in a spiritual reality, (...)*” (R.Steiner 26:50 , LXIII : 3/29/1925). {namely without rooting in a **spiritual* reality of ideas. - In favor of nominalism : universal designations do not exist, just designations by shibboleth mostly originating in modern times.}

number **ether* = *chemical ether*.

O.

objectivity : lack of favoritism toward one side or another : freedom from bias [Merriam-Webster, 12/'25]. - **In science**, objectivity refers to attempts to do higher quality research by eliminating personal biases [or prejudices], irrational emotions and false beliefs, while focusing mainly on proven facts and evidence. It is often linked to observation as part of the scientific method. It is thus related to the aim of testability and reproducibility. To be considered objective, the results of measurement must be communicated from person to person, and then *demonstrated* for third parties, as an advance in a collective understanding of the world. Such demonstrable knowledge has ordinarily conferred demonstrable powers of prediction or technology. **In philosophy**, something is objective if it can be confirmed or assumed independently of any minds. If a claim is true even when considering it outside the viewpoint of a sentient being, then it may be labelled objectively true. For example, many people would regard "2 + 2 = 4" as an objective statement of mathematics. [en.wikipedia.org 12/'25].

objectivity, anthroposophic : the aim of **anthroposophic* **spiritual* **science*, namely showing **clairvoyant* cognition so clearly that they convince as forcefully as scientific experiments although the resulting contents will differ from each other. The convincing force, experienced internally and flash-like, makes anthroposophic objectivity different from inter-subjective cognition ; in anthroposophic conviction anthroposophic objectivity is conveyed by **spiritual beings*.

objectivity, scientific : aiming at the same results every time conditions and methods do not change, independently of the experimenter's thoughts or feelings.

“Occult science is the science of what takes place in the ‘hidden’ realm, insofar as it is not perceived out in nature, but rather in the realm toward which the soul turns when it directs its inner life toward the spirit.” (R. Steiner, *quoted in info 3, 4/'26, p. 9*).

Oligocene [33.9 – 23.03 million years ago], late part of the **Paleogene* [66 – 23.03 .million years ago]. Corresponding ~ to the 3rd **Atlantean* **epoch*.

ontogenesis, ontogenetic = concerning personal history, the development of an individual or a single organ or species. /= **phylogenesis*.

Oort cloud is theorized to be a cloud of billions of icy planetesimals surrounding the Sun at distances ranging from 2,000 to 200,000 AU (0.03 to 3.2 light-years). The cloud was proposed in 1950 by the Dutch astronomer Jan Oort, in whose honor the idea was named. Oort proposed that the bodies in this cloud replenish and keep constant the number of long-period comets entering the inner Solar System—where they are eventually consumed and destroyed during close approaches to the Sun. - The cloud is thought to encompass two regions: a disc-shaped inner Oort cloud aligned with the solar ecliptic [also called its Hills cloud] and a spherical outer Oort cloud enclosing the entire Solar System. Both regions lie well beyond the heliosphere and are in interstellar space. The innermost portion of the Oort cloud is more than a thousand times as far from the Sun as the Kuiper belt, the scattered disc and the detached objects—three nearer reservoirs of trans-Neptunian objects. - The outer limit of the Oort cloud defines the cosmographic boundary of the Solar System. [en.wikipedia.org 12/'25].

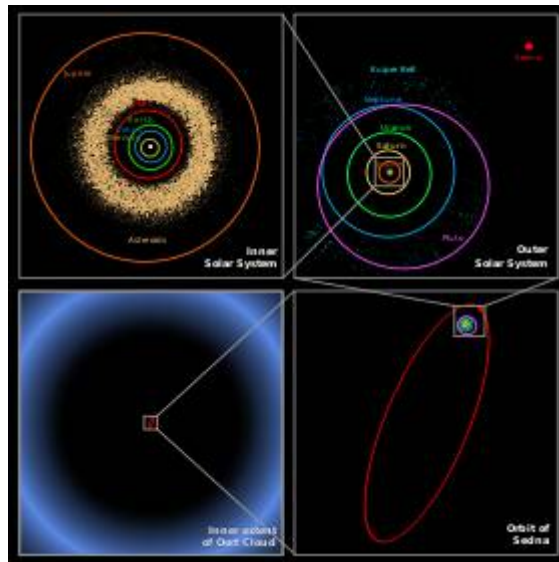


Fig. J.2.O Oort cloud [Wikipedia.de].

Ordovician [485,4 – 443,4 million years ago] : 2nd period of the **Paleozoic* [538.8 – 251.9 million years ago].

Ormuzd : helpful **spirit* of the 2nd = primordial Persian **cultural period*. =/= *Ahriman.

orogenies : cadomian at the northern rim of Gondwana during the **Ediacaran* + **Cambrian* [? 635 ? - 541 - 485,4 million years ago]. - Alpidic = similar to the Alps : Caledonian : Norway – Scotland – Appalachians during the **Ordovician* + **Silurian* [485,4 – 443,4 - 419,2 million years ago]. Variscian = collision Europe – Africa during the Devonian - Triassic [419,2 - 201,3 million years ago]. Uralian = collision Europe – Siberia during the Jurassic - Quaternary [201,3 million years ago up to our days] [Wikipedia.de 10/24] (D7:5).

orogeny : the process of mountain formation especially by folding of the earth's crust. [Merriam-Webster 10/24]. - **orogeny** (/ˈɒrədʒəni/) [óros 'mountain' and γένεσις (*genesis*) 'creation, origin'] is a mountain-building process that takes place at a convergent plate margin when plate motion compresses the margin. An orogenic belt or orogen develops as the compressed plate crumples and is uplifted to form one or more mountain ranges. This involves a series of geological processes collectively called **orogenesis**. These include both structural deformation of existing continental crust and the creation of new continental crust through volcanism. Magma rising in the orogen carries less dense material upwards while leaving more dense material behind, resulting in compositional differentiation of Earth's **lithosphere* [crust and uppermost mantle]. A **synorogenic** (or **synkinematic**) process or event is one that occurs during an orogeny. [en.wikipedia.org 12/25].

Orrorin : an extinct genus of great ape within the tribe of **Hominini* from the Miocene [23 – 5.3 million years ago] and Pliocene [5.3 – 2.588 million years ago], both of Kenya. [en.wikipedia.org 12/25].

P.

paedogenesis = **progenesis** : sexual development is accelerated. =/= neoteny, juvenilization. [en.wikipedia.org 3/26].

juvenilization : the delaying or slowing of the physiological, or somatic, development of an organism, typically an animal. Juvenilization in modern humans is more significant than in other primates. = **neoteny*, =/= **progenesis* or **paedogenesis*. Both juvenilization / neoteny and progenesis result in **paedomorphism* (as having the form typical of children) or **paedomorphosis* (changing towards forms typical of children). [en.wikipedia.org 3/26].

paedomorphism : as having the form typical of children. [en.wikipedia.org 3/26].

paedomorphosis : changing towards forms typical of children. [en.wikipedia.org 3/26].

paleo- = old, ancient.

paleobiology, paleogeology : ancient biology / geology.

Paleogene «old parentage», [formerly Old Tertiary] [66 – 23 million years ago], early period of the **Cenozoic* [66 million years ago up to today]. Corresponding to ~ the beginning of the **Atlantean* **age* [66 million years ago - 11.7 thousand years ago].

Paleozoic : era of «ancient life», namely most ancient fossils, = 'Erdaltertum', [538.8 – 251.9 million years ago] : earliest era of the **Phanerozoic* [538.8 million years ago up to our days]. Corresponding ~ to the *early* **Lemurian* **age* [538.8 - 298.9 million years ago].

Paranthropus : a genus of extinct **hominins* which contains two widely accepted species: *P. robustus* and *P. boisei*. However, the validity of *Paranthropus* is contested, and it is sometimes considered to be

J.2. Glossary

synonymous with *Australopithecus*. They are also referred to as the **robust australopithecines**. They lived between approximately 2.9 and at least 1 million years ago from the end of the *Pliocene* [5.333 – 2.588 million years ago] to the Middle *Pleistocene* [5.333 – 2.588 million years ago – 11.7 thousand years ago]. [en.wikipedia.org 12/25].

peridotite : a dense, phaneritic (coarse-grained) igneous rock consisting mostly of the silicate minerals olivine and pyroxene. Peridotite is ultramafic, as the rock contains less than 45% silica. It is high in magnesium (Mg^{2+}), reflecting the high proportions of magnesium-rich olivine, with appreciable iron. Peridotite is derived from Earth's mantle, either as solid blocks and fragments, or as crystals accumulated from magmas that formed in the mantle. The compositions of peridotites from these layered igneous complexes vary widely, reflecting the relative proportions of pyroxenes, chromite, plagioclase, and amphibole.

Phanerozoic : 4th and last eon of «visible life» [fossils], [538.8 million years ago up to our days], consisting of **Paleozoic* = 'Erdaltertum' + **Mesozoic* = 'Erdmittelalter' + **Cenozoic* = 'Erdneuzeit'.

phenomenon : an observable event. The term came into its modern philosophical usage through Immanuel Kant, who contrasted it with the noumenon, which cannot be directly observed. Kant was heavily influenced by Gottfried Wilhelm Leibniz in this part of his philosophy, in which phenomenon and noumenon serve as interrelated technical terms. Far predating this, the ancient Greek Pyrrhonist philosopher Sextus Empiricus also used phenomenon and noumenon as interrelated technical terms. [en.wikipedia.org 12/25].

phylogenesis, phylogenetic [from *φύλον* *phýlon*, 'root', and *γένεσις* *généσις*, 'origin'] = **phylogeny, phylogenetic** development of all living beings as well as on all planes of the biologic taxonomy as well as of specific features in the course of developmental history. \neq **ontogenesis, ontogenetic*.

physical : perceived with other senses than today's visual sense. Better to be called : **mineral-physical* since it forms part of the **mineral kingdom / realm* : **spiritual* \rightarrow *mineral-physical* \rightarrow **materializing*.

physical {I} : by and by **warmth* originates as the only **element*, and **fire ether* as the only **ether* : all that is possible during *OLD SATURN* as well as during the **Polaric *age of EARTH*.

physical {II} : by and by the **element *gas-air* originates out of **warmth*, and **light *ether* out of **fire ether*, so that 2 **mineral-physical elements* and 2 *ethers* exist side by side : all that is possible during *OLD SUN* as well as during the **Hyperborean *age of *EARTH*.

physical {III} : by and by the **element *liquid-watery* originates out of **gas-air*, and **rhythm *ether* out of **light ether*, so that 3 **mineral-physical elements* and 3 *ethers* exist side by side : all that is possible during *OLD SUN* as well as during the **Lemurian *age of *EARTH*.

physical {IV} : by and by the **element solid-earthly* originates out of the **liquid-watery*, and **life *ether* out of **rhythm ether*, so that 4 **mineral-physical elements* and 4 *ethers* exist side by side : all that is indeed possible during **EARTH*.

physical *form state of *EARTH (better : **mineral-physical form state of EARTH*) : *form state* (an span of time not to be defined) within the **mineral kingdom / realm* of the **planetary development state of EARTH*. The Earth acquires **physical {IV}* form becoming **material*. Consisting of **ages*.

physical body : anatomical body discernible with the outer senses. During *EARTH* with minerals, plants, animals, and humans. Developing ontogenetically especially during the 1st 7 years. Its 1st anlage originates phylogenetically from spiritual worlds / forces during *OLD SATURN* as well as during the *Polaric age*. Its 2nd anlage creates the 1st anlage of the *ether body* during *OLD SUN* as well as during the *Hyperborean age*.

pithecanthropus : «ape man». A hypothetical group of extinct **primates* intermediate between man and the anthropoid apes [Merriam-Webster 3/25].

placoderms a class of extinct fishes with an armor of large bony plates and primitive jaw structures [Merriam-Webster 10/24]. - (From Greek *πλάξ* (*plax, plakos*) 'plate' and *δέρμα* (*derma*) 'skin') are vertebrate animals of the class Placodermi, an extinct group of prehistoric fish known from Paleozoic fossils during the Silurian and the Devonian periods. While their endoskeletons are mainly cartilaginous, their head and thorax were covered by articulated armoured plates (hence the name), and the rest of the body was scaled or naked depending on the species. - Placoderms were among the first jawed fish (their jaws likely evolved from the first pair of gill arches), as well as the first vertebrates to have true teeth. They were also the first fish clade to develop pelvic fins, the second set of paired fins and the homologous precursor to hindlimbs in tetrapods. 380-million-year-old fossils of three other genera represent the oldest known examples of live birth. [en.wikipedia.org 10/24].

planetary development states : The Earth's development in 7 steps from out of the *spiritual world* to *EARTH* and before reentering the spiritual world, see vol. I , part 4 , chapter 1.2. : *OLD SATURN* , *OLD SUN* , *OLD MOON* , *EARTH* , *JUPITER* , *VENUS* , *VULCAN*. Each *planetary development state* subdivides into 7 *life states*.

plasma : from ancient Greek 'moldable substance' [en.wikipedia.org 11/'24].

platonian (world) year : defined by scientific astronomy as "The period of one complete cycle of the equinoxes around the ecliptic, or about 25,800 years". (...) The plane of the ecliptic is the plane described by the apparent motion of the Sun against the starry background. It is the Earth's orbital motion about the Sun which causes this apparent motion to occur. [en.wikipedia.org , 9/'24].

plate tectonics : a theory in geology: the lithosphere of the earth is divided into a small number of plates which float on and travel independently over the mantle and much of the earth's seismic activity occurs at the boundaries of these plates [Merriam-Webster 12/'25]. - The scientific theory that Earth's lithosphere comprises a number of large tectonic plates, which have been slowly moving since 3–4 billion years ago. The model builds on the concept of continental drift, an idea developed during the first decades of the 20th century. Plate tectonics came to be accepted by geoscientists after seafloor spreading was validated in the mid- to late 1960s. The processes that result in plates and shape Earth's crust are called tectonics. [en.wikipedia.org 12/'25].

Platonic (world) year : in scientific astronomy, it refers to the time required for the equinoxes to complete one full cycle around the ecliptic, a period of approximately 25,800 years. According to Ptolemy, his teacher Hipparchus discovered this phenomenon by comparing the position of the vernal equinox against the fixed stars, noting that it shifts westward by about one degree every 72 years. This means that a full cycle through all the zodiac constellations takes roughly 25,920 years. In the heliocentric model, this precession can be visualized as the Earth's rotational axis slowly tracing a circular path around the normal to the plane of the ecliptic. Currently, Earth's axis points close to Polaris, the North Star, but due to precession, this alignment is temporary and will shift over time, returning only after one complete Platonic Year has passed. [en.wikipedia.org 12/'25].

Pleistocene «the newest» = ice age [2,588 –11.7 thousand years ago], early part of the *Quaternary [2,588 thousand years ago up to our days]. Corresponding ~ to the 2nd half of the *Atlantean *age. Homo sapiens 300 thousand years ago.

Pliocene «more unusual» [5.3 – 2.588 million years ago], late part of the *Neogene = «new parentage» [= New Tertiary] [23.03 – 2.588 million years ago]. Corresponding ~ to the 7th *Atlantean *epoch.

Polaric *age : earliest age of the *mineral-physic *form state of *EARTH. Iterating OLD *SATURN.

Popper, Karl [1902-1994] : rose falsifying up to a scientific principle : discovering the limits of a view.

Post-Atlantean *age (7227 BCE - 38113 CE on the linear Sun scale)= age of *I'-consciousness : 5th age of the *mineral - *physical *form state of *EARTH. Time span after the *ice age and since the 8th Flood. Consisting of 7 *cultural *epochs / periods. - ~ *Holocene [11.7 thousand years ago up to the future]. Originating in our = Anglo-Saxon-Germanic cultural period : *consciousness *soul.

Precambrian : Super-eon «before the Cambrian» [?4.570? – 538.8 million years ago]. Consisting of the eons *Hadean, *Archean, and *Proterozoic.

pralaya = worlds' night = Devachan night : purely spiritual interim states between planetary development states. =/= Manvantara. Not between ages. - A period of dissolution or destruction of the manifested universe at the end of a kalpa according to Hindu philosophy : the end of the world [Merriam-Webster 12/'25]. - Pralaya (Sanskrit: प्रलय, romanized: Pralaya, lit. 'Destruction') is a concept in Hindu eschatology. Generally referring to four different phenomena, it is most commonly used to indicate the event of the dissolution of the entire universe that follows a kalpa [a period of 4.32 billion years] called the Brahma-pralaya. [en.wikipedia.org 12/'25].

precession : a comparatively slow gyration of the rotation axis of a spinning body about another line intersecting it so as to describe a cone [Merriam-Webster 12/'25]. - A change in the orientation of the rotational axis of a rotating body. In an appropriate reference frame it can be defined as a change in the first Euler angle, whereas the third Euler angle defines the rotation itself. In other words, if the axis of rotation of a body is itself rotating about a second axis, that body is said to be precessing about the second axis. A motion in which the second Euler angle changes is called nutation. In physics, there are two types of precession: torque-free and torque-induced. In astronomy, precession refers to any of several slow changes in an astronomical body's rotational or orbital parameters. An important example is the steady change in the orientation of the axis of rotation of the Earth, known as the precession of the equinoxes. [en.wikipedia.org 12/'25].

Primates : mammals that are characterized especially by advanced development of binocular vision resulting in stereoscopic depth perception, specialization of the hands and feet for grasping, and enlargement of the cerebral hemispheres and that include humans, apes, monkeys, and related forms [such as lemurs and tarsiers] [Merriam-Webster 11/'25]. - Primates arose 74–63 million years ago first from small terrestrial mammals, which adapted for life in tropical forests: many primate characteristics represent adaptations to the challenging environment among tree tops, including large brain sizes, binocular vision, color vision, vocalizations, shoulder girdles allowing a large degree of movement in the upper

J.2. Glossary

limbs, and opposable thumbs [in most but not all] that enable better grasping and dexterity. Primates range in size from Madame Berthe's mouse lemur, which weighs 30 g, to the eastern gorilla, weighing over 200 kg. There are 376–524 species of living primates, depending on which classification is used. New primate species continue to be discovered: over 25 species were described in the 2000s, 36 in the 2010s, and six in the 2020s. [en.wikipedia.org 12/25].

progenesis = paedogenesis : sexual development is accelerated. =/= neoteny, juvenilization. [en.wikipedia.org 3/26].

prokaryotes : any of the typically unicellular microorganisms that lack a distinct nucleus and membrane-bound organelles and that are classified as a kingdom (Prokaryotae synonym Monera) or into two domains (Bacteria and Archaea). [Merriam-Webster, 8/24]. - **Prokaryotes** (*/prɒʊ'kæriəʊt, -ət/*; less commonly spelled **procaryotes**) is a single-cell organism whose cell lacks a nucleus and other membrane-bound organelles. [en.wikipedia.org 10/24].

Proterozoic eon of «early life», 3rd eon [?2.500? – 538.8 million years ago]. Corresponding ~ to the late part of the **Hyperborean* *age + *beginning* **Lemurian age* [?4,570 - 720? - 538.8 million years ago].

protostomia , {'earliest-mouth' animals}, is the clade of animals once thought to be characterized by the formation of the organism's mouth before its anus during embryonic development. This nature has since been discovered to be extremely variable among Protostomia's members, although the reverse is typically true of its sister clade, Deuterostomia. Well known examples of **protostomes** are arthropods, molluscs, annelids, flatworms and nematodes. [en.wikipedia.org 8/24]. =/= Deuterostomia.

protozoa : any of a phylum or subkingdom [Protozoa] of chiefly motile and heterotrophic unicellular protists [such as amoebas, trypanosomes, sporozoans, and paramecia] that are represented in almost every kind of habitat and include some pathogenic parasites of humans and domestic animals [Merriam-Webster 10/24]. - Single-celled eukaryotes [en.wikipedia.org 10/24].

process, living : in science recurrent sequence of life, the result can be predicted just statistically.

Ptolemy, Claudius, [~ 100 -> 160 CE] : extenuated the geocentric world view in his life work of 13 volumes, known by its name in Arabic grammar : *Almagest*, from ancient Greek *Megiste Syntaxis* [«Largest Compilation»].

protostomia transform the mouth from the blastopore - opening, which had originated die from the embryonic morula [mulberry] state by infolding. They generate the anus on the other end of the body, excepting squids. =/= *deuterostomia.

Pythagoras of Samos [~ 570 -> 510 BCE] : the heliocentric world view takes his name.

Q.

quantum field theory : a theory in physics: the interaction of two separate physical systems [such as particles] is attributed to a field that extends from one to the other and is manifested in a particle exchange between the two systems [Merriam-Webster 12/25]. - In theoretical physics, **quantum field theory (QFT)** is a theoretical framework that combines field theory, special relativity and quantum mechanics. QFT is used in particle physics to construct physical models of subatomic particles and in condensed matter physics to construct models of quasiparticles. The current standard model of particle physics is based on QFT. [en.wikipedia.org 12/25].

Quaternary [2.588 thousand years ago up to our days]. Late part of the **Cenozoic* [66 million years ago up to our days]. ~ 2nd half of the **Atlantean* + **Post-Atlantean* *ages.

Quartz = silicon dioxide [Si O₂] is the second most frequent mineral of granite after feldspar.

Quasar - from English ,QUAsi-StellAr Radio source' : a region at the center of a galaxy that produces an extremely large amount of radiation [Merriam-Webster 12/25]. - An extremely luminous active galactic nucleus (AGN). It is sometimes known as a **quasi-stellar object**, abbreviated **QSO**. The emission from an AGN is powered by accretion onto a supermassive black hole with a mass ranging from millions to tens of billions of solar masses, surrounded by a gaseous accretion disc. Gas in the disc falling towards the black hole heats up and releases energy in the form of electromagnetic radiation. The radiant energy of quasars is enormous; the most powerful quasars have luminosities thousands of times greater than that of a galaxy such as the Milky Way. Quasars are usually categorized as a subclass of the more general category of AGN. The redshifts of quasars are of cosmological origin. [en.wikipedia.org 12/25].

R.

“**Realism**, which felt reality in ideas but could not find this reality. Realism heard the universal word speaking in the world of ideas but was not capable of understanding this language.” (R.Steiner 26:273 f, LXIII : 3/29/1925). =/= **nominalism*.

realism : a : a doctrine that universals exist outside the mind, specifically : the conception that an abstract term names an independent and unitary reality ; b : a theory that objects of sense perception or cognition

exist independently of the mind [Merriam-Webster 12/25]. - **Philosophical realism**—usually not treated as a position of its own but as a stance towards other subject matters—is the view that a certain kind of thing [ranging widely from abstract objects like numbers to moral statements to the physical world itself] has mind-independent existence, i.e. that it exists even in the absence of any mind perceiving it or that its existence is not just a mere appearance in the eye of the beholder. This includes a number of positions within epistemology and metaphysics which express that a given thing instead exists independently of knowledge, thought, or understanding. This can apply to items such as the physical world, the past and future, other minds, and the self, though may also apply less directly to things such as universals, mathematical truths, moral truths, and thought itself. However, realism may also include various positions which instead reject metaphysical treatments of reality altogether. [en.wikipedia.org 12/25].

reasoning & mind soul = * mind soul

red giant is a star that has exhausted the supply of hydrogen in its core and has begun thermonuclear fusion of hydrogen in a shell surrounding the core. They have radii tens to hundreds of times larger than that of the Sun. However, their outer envelope is lower in temperature, giving them a yellowish-orange hue. Despite the lower energy density of their envelope, red giants are many times more luminous than the Sun because of their great size. [en.wikipedia.org 9/24].

rishis, holy : a holy Hindu sage, saint, or inspired poet [Merriam-Webster 12/25]. - In Indian religions, a **rishi** (Sanskrit: ऋषि IAST: *r̥ṣi*) is an accomplished and enlightened person. They find mention in various Vedic texts. Rishis are believed to have composed hymns of the Vedas. The Post- Vedic tradition of Hinduism regards the rishis as "great yogis" or "sages" who after intense meditation [tapas] realized the supreme truth and eternal knowledge, which they composed into hymns. The term appears in Pali literature as Isi; in Buddhism they can be either Buddhas, Paccekabuddhas, Arahats or a monk of high rank. [en.wikipedia.org 12/25]. - Earliest leaders mentioned in the Vedas, earliest = *primordial Indian *cultural period*.

rhythm *ether = chemical ether = sound ether = tone ether = number ether.

Rockall : a 17.15-meter-high, uninhabitable granite islet in the North Atlantic Ocean. It is 301 kilometers west of Soay, St Kilda, Scotland; 423 kilometers north-west of Tory Island, Ireland; and 700 kilometers south of Iceland. The nearest permanently inhabited place is in North Uist, 370 kilometers east in Scotland's Outer Hebrides. Rockall was formed during the *Paleogene period, by magmatism as part of the North Atlantic Igneous Province. Rockall and Hasselwood Rock, 200 meters north, are the only emergent parts of Helen's Reef and the Rockall Plateau. Twenty-nine-meter waves just east of Rockall were reported in 2006 as the largest ever recorded by scientific instruments in the open ocean. Rockall's first named geographic location and only occupiable area is Hall's Ledge. [en.wikipedia.org 12/25].

Christian Rosenkreuz [also spelled Rosenkreutz, Rosencreutz, Christiani Rosencreütz and Christian Rose Cross] is the legendary, possibly allegorical, founder of the Rosicrucian Order (Order of the Rose Cross). He is presented in three manifestos that were published early in the 17th century. These were:

- *Fama Fraternitatis* (published 1614 in Kassel, Germany) This manifesto introduced the founder, "Fratres C.R.C."
- *Confessio Fraternitatis* (published 1615 in Kassel, Germany)
- *The Chymical Wedding of Christian Rosenkreutz* (published 1616 in Strasbourg, now France).

S.

Sahelanthropus is an extinct genus of *hominid dated to about 7 million years ago during the Late *Miocene.

The type species, *Sahelanthropus tchadensis*, was first announced in 2002, based mainly on a partial cranium, nicknamed *Toumai*, discovered in northern Chad. The definitive phylogenetic position of *Sahelanthropus* within hominids is uncertain. Examinations on the postcranial skeleton of *Sahelanthropus* also indicated that this taxon was not a habitual biped. [en.wikipedia.org 12/25].

(OLD) SATURN : earliest **planetary development state*. Containing the **element *warmth* and *fire *ether* only, so just to be felt with today's senses. Originating as something **mineral-physical* from the spiritual human core, which is mankind in our days. By and by the 1st primordial step of the physical body of the spiritual human core develops over the 7 epochs. - *Deep trance *consciousness* as in matter today. - Iterated during the **Polaric *age*.

science : Knowledge of the laws of all matter, not just of nature. Its limits : anything **spiritual* or concerning the **soul*. Measuring everything enumerable, so including mathematics. =/= **spiritual science*.

self-consciousness = 'I'-consciousness, conscious self-cognition, self-awareness.

senses : perception organs. Outer senses : to see, hear, taste, smell, touch. Inner senses = **chakras*.

J.2. Glossary

senses, 12 : Physical senses : of touch ; life ; proper motion ; balance. - Soul senses : smell ; taste ; vision ; warmth. - **Spiritual* + social senses : hearing ; wording, speaking ; thinking, imagining ; ego.

sentient body = *astral body*.

sentient soul : a state of consciousness, originating during the Assyrian-Babylonian-Chaldean-Egyptian-Hebrew / Jewish = 3rd *cultural period, from 2907 – 747 BCE.

seraphim [Hebrew : scorch in flames, or be consumed] = *spirits of love {1.1}. 1st degree of the 1st **hierarchy* {1} of **spiritual beings*. Working spiritually in the physical Earth's *spiritual* environment the same as the **cherubim*. Taking the world's plan from the *Trinity. Carrying the spiritual human core purely spiritually as pure soul warmth.

sevens of years of human life in groups of three : At the age of ... we develop - with wide transitions, which enlarge as life proceeds ...

0 - 20 : ... the 'I' via one's own body : *physical body (rhythm, feeling berthed, walking, speaking, thinking). *ether body, life forces (second dentition, role models). *sentient body (puberty).

21 – 41 : ... the other via one's own soul : *sentient soul (opening up to the world). *reasoning and mind soul (crisis of talents). *consciousness soul (consolidation, questions as to the sense of life, responsibility vis-à-vis one's family).

42 – 62 : ... the WE via the **spirit* working within ourselves : *Manas (creativity, courage). *Atma(n) (composure). *Bu(d)dhi (wisdom).

63 – 83 : {We via other's connivance vis-à-vis ourselves} : {Patience with the weakness of one's **physical body* / life forces (**ether body*) / feelings (**astral body*) : in social context}.

83 – 104 : {Internal preparation to pass the threshold} : {sentient *soul / reasoning & mind soul / consciousness soul : in social context}.

105 – 125 : {As we give up soul activity, too, = fading away = submitting to the **spiritual* totally, we help younger ones around to sacrifice themselves for us lovingly, → helping them to approach **JUPITER* *consciousness.}

shale : A fissile rock that is formed by the consolidation of clay, mud, or silt, has a finely stratified or laminated structure, and is composed of minerals essentially unaltered since deposition [Merriam-Webster, 9/24]. - A fine-grained, clastic sedimentary rock formed from mud that is a mix of flakes of clay minerals and tiny fragments of other minerals, especially quartz and calcite. Shale is characterized by its tendency to split into thin layers less than one centimeter in thickness [en.wikipedia.org, 9/24].

shelf sea : ocean part near the coast, up to 200 m deep.

shoal : a sandbank or sandbar that makes the water shallow [Merriam-Webster 9/24].

sidereal orbit : time of an orbit referred to a fixed star at infinite distance, e.g. around the Sun : e.g. the Moon orbiting around the Earth in 27.3217 days. ≠ **synodic orbit** = period = year : = sidereal orbit time + proportionate rotation time = the time a planet needs to appear again, when observed from the Earth, in the same angle {= star background ?} .

sidereal year [or **sidereal orbital period**], which is the time it takes Earth to complete one full orbit around the Sun as measured with respect to the fixed stars, resulting in a duration of 20 minutes longer than the tropical year, because of the precession of the equinoxes. [en.wikipedia.org, 12/25].

signet, *age of 7 signets :

- 1st opening a signet --> a white horse with rider and bow, corresponding to the lion, or war.

- 2nd opening a signet --> a red horse with rider, corresponding to a bull, or peaceful work.

- 3rd opening a signet --> a human face, corresponding to justice.

- 4th opening a signet --> an eagle, corresponding to the religious revival.

- 5th opening a signet --> early Christianity.

- 6th opening a signet -->

- 7th opening a signet --> 7 angels in front of God, corresponding to leading to God, or **initiation*.

silicates : a salt or ester derived from a silicic acid, especially : any of numerous insoluble often complex metal salts that contain silicon and oxygen in the anion, constitute the largest class of minerals, and are used in building materials [such as cement, bricks, and glass]. - Any member of a family of polyatomic anions consisting of silicon and oxygen, usually with the general formula $[\text{SiO}_{(4-x)}]^{(4-2x)-} n$, where $0 \leq x < 2$. The family includes orthosilicate $[\text{SiO}_4]^{4-}$ ($x = 0$), metasilicate $[\text{SiO}_3]^{2-}$ ($x = 1$), and pyrosilicate $[\text{Si}_2\text{O}_7]^{6-}$ ($x = 0.5$, $n = 2$). The name is also used for any salt of such anions, such as sodium metasilicate; or any ester containing the corresponding chemical group, such as tetramethyl orthosilicate. The name "silicate" is sometimes extended to any anions containing silicon, even if they do not fit the general formula or contain other atoms besides oxygen; such as hexafluorosilicate $[\text{SiF}_6]^{2-}$. Most commonly, silicates are encountered as silicate minerals. For diverse manufacturing, technological, and artistic needs, silicates are versatile materials, both natural (such as granite, gravel, and garnet) and artificial (such as Portland cement, ceramics, glass, and waterglass).

Silurian [443.4 – 419.2 million years ago] : 3rd period [out of 6] of the **Paleozoic* [538.8 – 251.9 million years ago].

Snowball Earth : a geohistorical hypothesis that proposes during one or more of Earth's icehouse climates, the planet's surface became nearly entirely frozen with no liquid oceanic or surface water exposed to the atmosphere. The most academically mentioned period of such a global ice age is believed to have occurred some time before 650 mya during the Cryogenian period, which included at least two large glacial periods, the Sturtian and Marinoan glaciations. [en.wikipedia.org 9/24].

solar cosmos : a notion just in this book to distinguish the anthroposophic cosmos from the astronomic one. = the physical cosmos under esoteric aspects insofar we limit ourselves to the solar system.

Sorath = «Sun-demon», opponent to the Christ = «Sun-spirit». Instructs **Lucifer*, **Ahriman*, and **Asuras*. The sum of his name's letter values in the Arabic alphabet {and probably in other Semitic alphabets, too} : 666.

soul : during *EARTH* with humans only. Originates phylogenetically from the astral body from *EARTH* on, especially so from the *Atlantic age* on ; develops ontogenetically in our days especially from the age of 22 on : in phases of 7 years : **sentient soul** („*Empfindungsseele*“, acting spontaneously at all times), **reasoning and mind soul** („*Verstandes- oder Gemütsseele*“, following reason and mind in addition to the sentient soul), and **consciousness soul** or **self-awareness soul** („*Bewusstseinsseele*“, getting aware of oneself in addition to the two others).

soul, human : giving duration to what we know, =/= animals ; =/= *astral body*.

sound ether = *chemical *ether*.

spirit : living beings, perceived just in *supersensory* ways. Insofar they concern themselves with us, living beings on Earth, we may grasp them as forces to begin with. These forces may as well be understood in physical, chemical, or biological ways.

- **spirits of love** = **Seraphim* {1.1} : the 1st grade of the **dyanic beings* = 1st **hierarchy* {1}. “(...) *receiving from the *Trinity the task (...), the utmost ideas of what a world system is to aim at*” (R.Steiner 110:90).
- **spirits of utmost wisdom or harmony** (*S.O. Prokofieff* pg 33) = **Cherubim* {1.2} : the middle grade of the 1st **hierarchy*. Working the same as the **Seraphim spiritually* in the ambit of the mineral-physical Earth. Their task is to „*implement into feasible plans (...)* what they are told by the *Seraphim*.“ (R.Steiner 110:90).
- **spirits of will** = **thrones* {1.3} : the 3rd grade of the 1st **hierarchy*, “*endowed with the task (...) to lend a hand to realize what had been thought out in wisdom*.“ (R.Steiner 110:90).
- **spirits of wisdom** = *dominions* = *dominationes* = *kyriotetes* : 1st grade {2.1} of *gods* {2}. Ranging the **thrones* will : originate *OLD SUN*, i.e. having *OLD SATURN'S* mass {= primordial fire} *densify* becoming *OLD SUN'S* mass {= mixture of primordial fire with primordial gas=primordial air=primordial fog}, and working in there. Sacrificing out of their bodies the substance from which originates man's **ether body*.
- **spirits of motion** = *mights* = *dynamis* = *eons* = *virtues* = *virtutes* : 2nd grade {2.2} of *gods*. Executing the *Dominions'* orders : originate *OLD MOON*, i.e. having *OLD SUN'S* mass condense → up to liquid / watery = *OLD MOON*, and working in there : The *OLD MOON* splits up into a new, finer Sun and a denser Moon by the *Mights* splitting into 2 classes : the advanced ones moved to the new Sun's body, the stay-behinds formed Venus and Mercury.
- **spirits of form** = *elohim* = *forces* = *exusiai* = *revelations* : 3rd grade {2.3} of *gods*. Perpetuating what the *Mights* had executed ; originating the Earth, and working in there. Effecting the interim phases = *Pralayas* between *planetary development states*. Youngest **spiritual *hierarchy* living their human stage before *OLD SATURN*.
- **spirits of personality** = *primordial powers* = *archai* = *primordial beginnings* = *spirits of time* = *Venus' sons* = *Dhyani-Buddhas* : 1st grade {3.1} of *angels* in the broad sense {3}. Ranging all mankind's affairs on Earth. Guiding the human *physical body* in the gestalt of corresponding man in the becoming since the *early *Lemurian *age*. Living their human stage during *OLD SATURN* ?
- **fire spirits** = *archangeloi* = *archangels* = *Mercury's sons* = *bodhisattvas* : 2nd grade {3.2} of *angels* in the broad sense. Guiding the human *physical body* and **ether body* in the gestalt of corresponding man in the becoming since the *late *Lemurian *age*. Living their human stage during *OLD SUN* ?
- **angeloi** = *angels* in the strict sense {3.3} : Living their human stage during *OLD MOON* : 3rd grade of *angels* in the broad sense. Preserving individuals' memory over their incarnations as long as these cannot do so themselves. Guiding in the gestalt of corresponding man in the becoming since the **Atlantean age* : the *human physical body*, **ether body*, and **astral body* ; and since the **Post-Atlantean age* the individual 'I', too.

spiritual = supersensible = everything we cannot discover with our five senses even if we had respective instruments : life ; whatever we feel in the soul ; thoughts ; imaginations ; concepts - as well as all the worlds of course whose inhabitants we cannot discern with the hereabouts senses. There are

stages in the *spiritual world*, too, so that we may as well speak of *spiritual worlds*.

spiritual beings : beings in the *spiritual worlds*, i.e. without a physical body.

spiritual development aims at coalescing with the world :

"This, my dears, is exactly what must be clear when entering into man's spiritual life : because of it you will coalesce with all the world." (R.Steiner 241:89 , V : 3/14/1924).

"It is a great, vivid experience given to man when he learns about initiation : that he stops taking for serious he were enclosed in skin. This is merely an indication that we exist as humans. Viewed by spiritual consciousness, what concentrates within the skin is an illusion ; because man is as large as the universe. His thinking goes as far as light ; his feelings go as far as warmth, his willing is as large as the air. -

If a being - developed likewise vis-à-vis consciousness - came down from any other body of the universe, it would address man in a totally different manner than people on Earth use to address each other in usual consciousness. Such a being would say : The light weaving around the Earth is differentiated. There are single differentiated beings inside the light. We need to imagine that in this terrestrial light all around the earth, weaving and seething as it is, there is everything in a certain space. There are many beings in this one space, as many as there are people on Earth. They are all of them covering each other in the Earth's world of light. For such a being coming to the Earth from a far away body of the universe, all man's thoughts are inside this light enveloping the Earth, inside the light webbing around the Earth. All the feelings are inside the warmth wrapping, and all the will is in the atmosphere, inside the casing of air. (...) All the real humans are nested with each other in light, warmth, and air in the Earth's surroundings." (R.Steiner 241:94 f , V : 3/14/1924).

spiritual hierarchies : *spiritual beings*, thought of in a hierarchical way namely helping us humans developing.

spiritual science : aiming at learning about *spiritual beings* by way of - and thereby about - one's soul as clearly as objectivity = replicability in sciences. More diverse than sciences because it is not tied to matter.

Spirit, Universal : what cannot be de-fined, what we cannot understand by reason because in the concrete world we are living in for the moment, we can grasp anything just by its limits [Karl Popper]. The Universal Spirit comprises everything. As this is so incomprehensible to us, and since we tend to de-fining, we give 'Him' many names from God via the Dao ['way', 'path', 'road', 'doctrine', 'principle'] as far as the Nirvana ["blown out"].

star dust of stars that had exploded earlier, contains largely hydrogen and helium, but oxygen, nitrogen, silicium, iron, manganese, and highly molecular substances as well as gems such as diamonds, sapphires, olivines, and proteins.

subduction : in plate tectonics : the edge of one crustal plate descending below the edge of another [Merriam-Webster 9/24]. - A geological process in which the oceanic lithosphere and some continental lithosphere is recycled into the Earth's mantle at the convergent boundaries between tectonic plates. Where one tectonic plate converges with a second plate, the heavier plate dives beneath the other and sinks into the mantle. A region where this process occurs is known as a **subduction zone**, and its surface expression is known as an **arc-trench complex**. The process of subduction has created most of the Earth's continental crust. [en.wikipedia.org 9/24].

(OLD) SUN : 2nd **planetary development state*. Containing the **ethers fire and light* as well as the **elements warmth and gas-air*. Additional physical consistency comes up : can be smelled by today's smell ? - Out of the **spiritual human core* there originates as something *mineral* what are animals in our days. By and by there develop during 7 **epochs* : the 2nd preliminary stage of the **physical body* of the **spiritual human core* and the 1st preliminary stage of the **ether body* as something plant-like : in our days just in plants. - Iterated during the **Hyperborean *age*.

synesthesia : a concomitant sensation especially : a subjective sensation or image of a sense (as of color) other than the one (as of sound) being stimulated, and the condition marked by the experience of such sensations [Merriam-Webster 12/25]. - A perceptual phenomenon in which stimulation of one sensory or cognitive pathway leads to involuntary experiences in other sensory or cognitive pathways. Synesthesia can manifest as a bridge between the five traditional senses, though can also include other perceptions, such as nociception, thermoception, chronoception, and interoception. People with synesthesia are referred to as synesthetes. [en.wikipedia.org 12/25].

Synestia - Hypothesis of the Moon originating : A Synestia is a state of a rock planet after a collision side of the center with a high energy level : Evaporated rock expands up to a multiple radius ; the inner part rotates rapidly and uniformly, the outer part forms a disk, optically dense disc with barely suborbital velocities as the gas pressure is not insignificant there either. A simulation of the dynamics and the phase balance taken together and adding geochemistry and fractionation of the isotopes, showed : Cooling down from the outside led to radial transportation mixing both original materials, there ensue Moonlets [small moons] in the disc, while there are still vapor pressures of several megapascals

explaining the moderate depletion of evaporating elements. In addition the range of collision parameters does not lead to a result as plausible as with the Theia hypothesis. [Wikipedia.de].

T.

temperature ether = fire ether.

tholins [after the Greek θολός (*tholós*) "hazy" or "muddy"; from the ancient Greek word meaning "sepia ink"] are a wide variety of organic compounds formed by solar ultraviolet or cosmic ray irradiation of simple carbon-containing compounds such as carbon dioxide [CO₂], methane [CH₄] or ethane [C₂H₆], often in combination with nitrogen [N₂] or water [H₂O]. Tholins are disordered polymer-like materials made of repeating chains of linked subunits and complex combinations of functional groups, typically nitriles and hydrocarbons, and their degraded forms such as amines and phenyls. Tholins do not form naturally on modern-day Earth, but they are found in great abundance on the surfaces of icy bodies in the outer Solar System, and as reddish aerosols in the atmospheres of outer Solar System planets and moons. In the presence of water, tholins could be raw materials for prebiotic chemistry [i.e., the non-living chemistry that forms the basic chemicals of which life is made]. Their existence has implications for the origins of life on Earth and possibly on other planets. As particles in an atmosphere, tholins scatter light, and can affect habitability. [en.wikipedia.org 12/25].

thrones {1.3} : 3rd grade of the 1st **hierarchy* {1} of **spiritual beings*. Working *spiritually* from *OLD SATURN* on. Bringing the world plan of the **solar cosmos* into the ambit of *OLD SATURN*, yielding their fire substance : sacrificing out of their *spiritual* bodies the substance wherefrom originates man's **physical body* : **warmth*. Carrying the *spiritual human core* purely *spiritually*.

time : the continuous progression of existence that occurs in an apparently irreversible succession from the past, through the present, and into the future. Time dictates all forms of action, age, and causality, being a component quantity of various measurements used to sequence events, to compare the duration of events [or the intervals between them], and to quantify rates of change of quantities in material reality or in the conscious experience. Time is often referred to as a fourth dimension, along with three spatial dimensions. - Time is primarily measured in linear spans or periods, ordered from shortest to longest. Practical, human-scale measurements of time are performed using clocks and calendars, reflecting a 24-hour day collected into a 365-day year linked to the astronomical motion of the Earth. Scientific measurements of time instead vary from Planck time at the shortest to billions of years at the longest. Measurable time is believed to have effectively begun with the Big Bang 13.8 billion years ago, encompassed by the chronology of the universe. Modern physics understands time to be inextricable from space within the concept of spacetime described by general relativity. Time can therefore be dilated by velocity and matter to pass faster or slower for an external observer, though this is considered negligible outside of extreme conditions, namely relativistic speeds or the gravitational pulls of black holes. - Throughout history, time has been an important subject of study in religion, philosophy, and science. Temporal measurement has occupied scientists and technologists, and has been a prime motivation in navigation and astronomy. Time is also of significant social importance, having economic value ("time is money") as well as personal value, due to an awareness of the limited time in each day ("*carpe diem*") and in human life spans. [en.wikipedia.org 12/25]. - We both authors are interested in the tendency to sense divine-spiritual life in phenomena we do not understand, even in everyday life - such as the experience of time : It may be a phenomenon from times of yore. This presumption coincides with Steiner's teachings that animals and pre-humans still have a direct connection to the divine world when sleeping, and humans may by and by become conscious of this when waking. Today however they largely lost this connection.

transhumanism is a philosophical and intellectual movement that advocates the enhancement of the human condition by developing and making widely available new and future technologies that can greatly enhance longevity, cognition, and well-being. [en.wikipedia.org 8/25].

Trinity, Christian : God as Father is the creator of the entire universe, and its conductor. **The Christ as the Son of God, the Redeemer, or The Word**, announces what our development aims at : spiritualizing by way of brotherly love. **The Holy Ghost** quickens the soul to listen to The Word internally. Mostly we are calling the three 'Holy Trinity' but I {KvP} prefer «unity in these three».

trinities, other : ancient Egyptian . Isis – Osiris – Horus. / «Hindu trinity» [Trimurti] : Brahma [creator] - Vishnu [conservator] - Shiva [sustainer and destroyer]. / The *eurythmic* TAO : T as God-Father entering from above – the open O as The Word – the ensheathing O as Mother Earth. / As aims of human development : *Atma(n)* – *Buddhi* = *Budhi* – *Manas*.

trinities, «small» :

triangle [Wikipedia.de] : see Fig. A.1.1. : The **2nd Ray Theorem** is used assuming the Sun rays are parallel and the Earth's surface in both triangles as much as level : 'If two straight lines crossing each other in a point

J.2. Glossary

are crossed by two parallels that do not touch this point then the sections on the parallels compare to the corresponding straights measured from the cross point on the respective straight lines.'

Triassic : [251.9 – 201.3 million years ago] : earliest period of the *Mesozoic [251.9 – 66 million years ago].

trilobites : any of numerous extinct Paleozoic marine arthropods (group Trilobita) having the segments of the body divided by furrows on the dorsal surface into three lobes [Merriam-Webster 12/25]. - Trilobites meaning "three-lobed entities") are extinct marine arthropods that form the class Trilobita. One of the earliest groups of arthropods to appear in the fossil record, trilobites were among the most successful of all early animals, existing in oceans for almost 270 million years, with over 22,000 species having been described. Because trilobites had wide diversity and an easily fossilized mineralised exoskeleton made of calcite, they left an extensive fossil record. The study of their fossils has facilitated important contributions to biostratigraphy, paleontology, evolutionary biology, and plate tectonics. Trilobites are placed within the clade Artiopoda, which includes many organisms that are morphologically similar to trilobites, but are largely unmineralised. The relationship of Artiopoda to other arthropods is uncertain. Trilobites evolved into many ecological niches; some moved over the seabed as predators, scavengers, or filter feeders, and some swam, feeding on plankton. Some even crawled onto land. [en.wikipedia.org 12/25].

Trinity, Christian : **God-Father** is the creator of the entire universe, and its conductor. **God-Son**, the **Christ** [the anointed one], the **Redeemer** or **The Word**, announces the aim of our development : spiritualizing via brotherly love. The **Holy Spirit** spurs the souls to hear The Word internally.

trinities, other : Ancient Egyptian . Isis – Osiris – Horus. / «Hindu Trinity» [Trimurti] : Brahma [creator] - Vishnu [conserver] - Shiva [sustainer and destroyer]. / The eurythmic T-A-O : God-Father as T driving in from above ; The Word as A opening from the heart ; Earth Mother as the ensheathing O. / As the aims of human development : **Atma(n)* – **Buddhi* = *Budhi* – **Manas*.

trinities, «small» :

tropical month a period that equals the mean time of the moon's revolution from any point of the ecliptic back to the same point and amounts to 27 days, 7 hours, 43 minutes, and 4.7 seconds of mean solar time [Merriam-Webster 12/25]. - Just as the tropical year is based on the amount of time between perceived rotations of the sun around the earth [based on the Greek word τροπή meaning "turn"], the tropical month is the average time between corresponding equinoxes. It is also the average time between successive moments when the moon crosses from the southern celestial hemisphere to the northern (or vice versa), or successive crossing of a given right ascension or ecliptic longitude. The moon rises at the North Pole once every tropical month, and likewise at the South Pole. It is customary to specify positions of celestial bodies with respect to the First Point of Aries [Sun's location at the March equinox]. Because of Earth's precession of the equinoxes, this point moves back slowly along the ecliptic. Therefore, it takes the Moon less time to return to an ecliptic longitude of 0° than to the same point amid the fixed stars. This slightly shorter period, 27.321582 days [27 d 7 h 43 min 4.7 s], is commonly known as the **tropical month** by analogy with Earth's tropical year. [en.wikipedia.org 12/25].

tropical year or **solar year** [or **tropical period**] is the time that the Sun takes to return to the same position in the sky – as viewed from the Earth or another celestial body of the Solar System – thus completing a full cycle of astronomical seasons. For example, it is the time from vernal equinox to the next vernal equinox, or from summer solstice to the next summer solstice. It is the type of year used by tropical solar calendars. [en.wikipedia.org 12/25]. =/= *sidereal year.

U.

under the Sun = 'untersonnig' : Compared to the heliocentric world view the Sun and the Earth changed places in the geocentric world view placing the Earth in the center = 'low'. 'under the Sun' are Mercury, Venus, and Moon. =/= above the Sun.

Uralian *orogeny = collision Europe – Siberia during the *Permian [298.9 – 251.9 million years ago] (D7:5) . *Pangea completing.

V.

Variscan orogeny or **Hercynian orogeny** was a geologic mountain-building event caused by Late Paleozoic continental collision between Euramerica [Laurussia] and Gondwana to form the supercontinent of Pangea. It remains visible today as a series of isolated massifs, including the Ardennes, Bohemian Massif, Vosges-Black Forest, Armorican Massif, Cornubian Massif, Massif Central, and Iberian System. These are interspersed with Mesozoic and Cenozoic sedimentary basins. The chain also crops out in southern Ireland and was later incorporated into the Alpine orogeny [external crystalline massifs] and Pyrenean orogeny. These ancient massifs form the pre-Permian basement of western and Central Europe, part of a larger mountain system stretching from the Ural Mountains in Russia to the Appalachian Mountains in North America. The chain originated from the convergence and collision of

J. Lexical Part

three continental masses : the microcontinent Armorica and the supercontinents Protogondwana and Laurussia [a union of Laurentia and Baltica from the *Caledonian orogeny). This convergence contributed to the formation of the supercontinent Pangaea. Today, the chain is heavily eroded, with most geological evidence consisting of metamorphic rocks and granites, which once formed the deep roots of the massif. [en.wikipedia.org 12/25]. - = collision Africa – Europe during the *Silurian [443.4 – 419.2 million years ago]. Pangea beginning.

VENUS : 6th *planetary development state*.

VENUS **consciousness* = inspiration consciousness = clear daytime + deep sleeping consciousness : ? as the *archangels = *fire* **spirits* {3.2} today ?

VULCAN : 7th *planetary development state*.

VULCAN **consciousness* : intuitive consciousness = clear daytime + deep trance consciousness : ? as the **Archai* = *primordial beginnings* = *primordial powers* = **spirits of personality* {3.1} today ?

W.

warmth **ether* = *fire ether*.

world night = **Pralaya*.

Y.

world year = **Platonic year*.

Z.

zodiac : an imaginary band in the heavens centered on the ecliptic that encompasses the apparent paths of all the planets and is divided into 12 constellations or signs each taken for astrological purposes to extend 30 degrees of longitude ; or : a figure representing the signs of the zodiac and their symbols [Merriam-Webster 12/25]. - A belt-shaped region of the sky that extends approximately 8° north and south celestial latitude of the ecliptic – the apparent path of the Sun across the celestial sphere over the course of the year. Within this zodiac belt appear the Moon and the brightest planets, along their orbital planes. The zodiac is divided along the ecliptic into 12 equal parts, called "signs", each occupying 30° of celestial longitude. These signs roughly correspond to the astronomical constellations with the following modern names : Aries, Taurus, Gemini, Cancer, Leo, Virgo, Libra, Scorpio, Sagittarius, Capricorn, Aquarius, and Pisces. [en.wikipedia.org 12/25].

zodiac signs : [**sidereal* = astrological duration] : Fische fish **pisces** [2/19 – 3/20], Wassermann /-mensch water-bearer **aquarius** [1/21 – 2/18], Steinbock goat **capricorn** [12/22 – 1/20], Schütze archer /centaur **sagittarius** [11/23 – 12/21], Skorpion / Adler scorpion **scorpio** [10/24 – 11/22], Waage scales **libra** [9/24 – 10/23], Jungfrau maiden **virgo** [8/23 – 9/23], Löwe lion **leo** [7/23 – 8/22], Krebs crab **cancer** [6/22 – 7/22], Zwillinge twins **gemini** [5/21 – 6/21], Stier bull **taurus** [4/21 – 5/20], Widder ram **aries** [3/21 – 4/20].

J.3. Numbers and Enumerations

(italics : anthroposophic terms)

1st

- Number of unity** : monotheisms, dictatorships, dogmatisms : Aiming at diminishing social conflicts, demanding and enhancing instead repression, denial, and self-denial.
- 1st *age of the planetary development state of EARTH = Polarcic *age.*
- 1st chakra = crown chakra. - (1st chakra for Steiner : between the eyes = forehead chakra) [= 2nd chakra].
- 1st *the Christ's crucifixion* (out of 2) : before Golgotha.
- 1st *the Christ's sacrifice* (out of 2) : on Golgotha.
- 1st consciousness state = dull, universal, = deep day consciousness = *Saturn consciousness* : originating during the 1st **planetary development state *OLD *SATURN.* During ** EARTH* in minerals ; containing anlagen of sense organs with mankind, animals, and plants.
- 1st *cultural period* = primordial Indian [7227 - 5067 BCE]. Conserving the dull-unconscious connection to the **spiritual worlds*, the same as during the **Atlantean *age.* Corresponding to Cancer of the **zodiac*, and planet **Mercury.* In human life corresponding to the 2nd seven years, ages 8 - 14 years : discovering the **ether body* : second dentition, role models.
- 1st *elementary kingdom / realm* = beings without form, primordially image-like : beings living in fire, on Earth locked-in by gods in air, water, ground. = elementary messengers of spiritually creative *building beings* {gods}. They may be delivered by us after we died if we did well during our life on Earth. Otherwise they remain tied to lives on Earth building our Karma.
- 1st hierarchy of *spiritual beings* = **Dyanic beings* {1}: **seraphim* {1.1}, **cherubim* {1.2}, **thrones* {1.3}.
- 1st meditation step of the purely Christian **initiation* : the Maundy [foot washing] because what is higher cannot exist without the lower.
- 1st grade of the oriental **initiation* : raven : conveys the states of the external world to higher initiates, e.g. Elias' ravens, Wotan's ravens, or Barbarossa's ravens.
1. meditation step of the Rosicrucian **initiation* : studies to engross the mind in supersensible cognition = in thoughts not of the physical world but of higher worlds.
- 1st *life state of EARTH* = 1st *elementary realm.*
- 1st = earliest human **member-of-the-being* : **physical *body* , originating during *OLD *SATURN.*
- 1st opening a **signet* --> a white horse with rider and bow, corresponding to the lion, or war.
- 1st soul process of 8 Lotus petals of the 16petaled lotus flower, to be developed by oneself : observing my notions : eliminating not rightful notions from the soul.

2nd

- Number of forming pairs** : sexual or social partnerships. Mirroring plane of the bodies of almost all the vertebrates at the symmetry axis.
- 2 apocalyptic beasts [Revelation 13].
- 2 days of dusk during *OLD *SATURN.*
- 2 Jesus children.
- 2 columns of the 4th **signet.*
- 2-petaled Lotos blossom =? = organ to recognize souls {in vividly wavering **gestalts*}, on the forehead {→ 1. *chakra* for Steiner}.
- 2nd Adam = the Christ.
- 2nd *age of the planetary development state of EARTH = Hyperborean *age.*
- 2nd chakra = forehead chakra. - (2nd chakra for Steiner = glottal / frontal neck - chakra) [= 3rd chakra] : near the glottis, facilitating clairvoyant recognition of the ways other souls think. 16Petal lotus blossom of which 8 were given to man as a present, but cannot be recognized any more because of man's tendency to materialism, and will be recognized again only when the initiate will recognize the other 8 ones which he will recognize as the workings of his own soul.
- 2nd *the Christ's crucifixion* (out of 2) : 1879 – 1933.
- 2nd *the Christ's sacrifice* (out of 2) : from 1933.
- 2nd consciousness state = dreamless sleep = *Sun consciousness* : originating during the 2nd **planetary development state * OLD *SUN.* During ** EARTH* in plants ; containing anlagen of glands as well as growth organs {digestion as well as propagation organs} with mankind and animals.
- 2nd *cultural period* = primordial Persian [5067 - 2907 BCE]. Construing the earliest connection to the physical

J. Lexical Part

- world : a world of dual notions. Corresponding to Gemini of the *zodiac, and planet Venus. In human life corresponding to the 3rd seven years, ages 14 – 20 years : discovering the **astral body* : puberty.
- 2nd *elementary kingdom / realm* = beings creating gestalt : working with everything occurring with the outside senses, e.g. effecting day and night, and are tied to day or night.
- 2nd hierarchy of *spiritual beings* = *gods* {2} : **spirits of wisdom* {2.1} / *of motion* {2.2} / *of form* {2.3}.
- 2nd meditation step of the purely Christian *initiation : flagellation to sustain pains and slashes of life.
- 2nd grade of the oriental *initiation : the occult one : leading an occult life.
- 2nd meditation step of the Rosicrucian *initiation : imaginative cognition as during the **planetary development state* **OLD SATURN* : discovering the inner spirituality of any being on Earth ; working on the **ether body* --> into the blood which transfigures the body then.
- 2nd *life state of EARTH* = 2nd *elementary realm*.
- 2nd human **member-of-the-being* : **ether body* , originating during *OLD *SUN*.
- 2nd soul process of 8 Lotus petals of the 16petaled lotus flower, to be developed by oneself : monitoring my decisions : avert thoughtless actions / not meaningful actions from the soul.
- 2nd opening a **signet* --> a red horse with rider, corresponding to a bull, or peaceful work.

3rd

Number of trinity

- 3 auras = species of color appearances : opaque-dull / as bright as light / radiant.
- 3 pre-Christian sacrifices of the Christ : walking upright, speech, thinking (*Delor 7:467*).
- 3 favorite disciples of the Christ : Peter, John, Jacob.
- 3 forms of the spiritual body = Kaya = Kaja of a Buddha : Dharmakaja, Samhoakaja, Nirmanakaja.
- 3 *members-of-the-being* : body, soul, spirit.
- 3 higher=future human **members-of-the-being* = 3 spiritual *members-of-the-being* : spirit self = higher 'I' , life spirit , spirit man.
- 3 nether human **members-of-the-being* = 3 **body casings* : **physical body*, **ether body*, **astral body*.
- 3 *spiritual human* **members-of-the-being* : Ahriman, Lucifer, the Christ.
- 3 *natural kingdoms / realms* : mineral, plants, animals.
- 3 *organs of the soul* : *sentient soul*, (*reasoning or*) *mind soul*, *consciousness coul*.
- 3 temptations of the Christ.
- 3 female virtues : domesticity, thrift, chastity.
- 3 theological = divine virtues : belief {*Fides*}, hope {*Spes*}, love {*Caritas*} {St. Paul : 1st Corinthians' letter 13,13}.
- 3 worlds : physical, psychic, spiritual.
- 3 social fields of life = threefold social structure : economy, ethics, spiritual legal life.
- 3rd *age of the planetary development state of EARTH* = *Lemurian *age*.
- 3rd *chakra* = glottal *chakra*. - (3rd *chakra* for Steiner = heart *chakra*) [= 4th *chakra*] : near the heart. 12Petal lotus blossom facilitating clairvoyant recognition of the ways other souls feel.
- 3rd *consciousness state* = image consciousness as when dreaming in sleep = *Moon consciousness* : originating during the 3rd **planetary development state* **OLD *MOON*. During **EARTH* in animals that cannot produce sounds from their interior ; containing Anlagen of the nervous system with mankind and higher animals {meaning animals which cannot produce sounds from their interior}.
- 3rd *cultural period* = Assyrian-Babylonian-Chaldean-Egyptian-Hebrew / Jewish [2907 - 747 BCE]. Gradually conserving the **spiritual*. Corresponding to Taurus of the *zodiac, and planet Sun in the geocentric world view {1st of 3 sevens of years}. In human life corresponding to the 4th seven years, ages 21 – 27 years : discovering the **sentient soul* : opening oneself to the world}.
- 3rd *elementary kingdom / realm* = beings around the soul : beings effecting the Moon shining or its darkness, and human sentiments : calmness of the soul will release them ; churlishness, ill humor will tie them to human karma.
- 3rd hierarchy of *spiritual beings* = **angels* in the broad sense {3} : **spirits of personality* {3.1}, **archangels* = *fire spirits* {3.2}, **angeloi* = *angels* in the strict sense {3.3}.
- 3rd meditation step of the purely Christian *initiation : crowning with thorns to sustain derision and jeers.
- 3rd grade of the oriental *initiation : the combatant : may stand out for occult teachings.
- 3rd meditation step of the Rosicrucian *initiation : reading occult scriptures = having working on himself not just single images {=2nd }, but the relation of images to each other = ranging the power lines running through the world, by imagination of shapes and colors.
- 3rd *life state of EARTH* = 3rd *elementary realm*.

J.3. Numbers and Enumerations

3rd human **member-of-the-being* : **astral *body* , originating during *OLD *MOON*.

3rd opening a **signet* --> a human face, corresponding to justice.

3rd soul process of 8 Lotus petals of the 16petaled lotus flower, to be developed by oneself : monitoring my speech : speaking thoughtfully only, answering.

4th

4 apocalyptic animals : lion ; eagle ; bull ; man {all of them not incarnated}.

4 *elements* : fire-warmth {during *OLD SATURN* for the 1st time} ; Luft-Gas {during *OLD SUN* for the 1st time} ; liquid-watery {during *OLD MOON* for the 1st time} ; solid-earthly {during *EARTH* for the 1st time}.

4 *ether* : *fire ether, light ether, chemical = sound = tone = number ether, life ether*.

4 human *group souls* : the heads of lion, ox, eagle, man.

4 *horns* = 4 pre - sexual parts of the human **physical *body*, developing to body organs, e.g. the lion's head → heart.

4 *members-of-the-being* of human nature „(...) *connected irregularly*“ : 3 bodies : *physical body, ether body=body* of the *building forces, astral body=sentient body* - and the 'I'.

4 *basic races, Atlantean* = 4 *group souls*.

4 cardinal virtues : prudence / wisdom ; justice ; braveness ; moderation.

4th *age* of the *planetary development state* of *EARTH* = *Atlantean *age*.

4th *chakra* = heart *chakra*. - (4th *chakra* for Steiner = solar *chakra*) [= 5th *chakra*] : near the solar plexus. 10Petal lotus blossom facilitating clairvoyant recognition of other souls' capacities and talents.

4th *consciousness state* = today's = matter *consciousness* = waking day *consciousness* = *Earth consciousness* : originating during the 4th **planetary development state *EARTH* in mankind and animals that can produce sounds from their interior.

4th *cultural period* = Greek-Roman [747 BCE - 1413 CE]. Containing spiritual and physical aspects in equilibrium. Corresponding to Aries of the **zodiac*, and planet Sun in the geocentric world view {2nd of 3 sevens of years}. In human life corresponding to the 5th seven years, ages 28 - 34 years : discovering the *reasoning and *mind soul* : crisis of talents.

4th *elementary kingdom / realm* = created *gestalts {crystal gestalts}* : beings creating the Sun's orbit on Earth, and its workings : seasons, vegetation periods, religious feast days in the rhythm of the year ; are released by our piety.

4th *meditation step* of the purely Christian **initiation* : crucifixion so to estrange from the body.

4th *grade* of the oriental **initiation* : “lion” : may stand out for occult teachings with magic activity.

4th *meditation step* of the Rosicrucian **initiation* : preparing the philosopher's stone : rendering unnecessary the plant part of the respiratory system by respiratory exercises.

4th *life state* = *mineral kingdom*.

4th human **member-of-the-being* : 'I' , originating during the **Atlantic *age*. In the 'I' there are preformed the 3 **spirit grades* man may attain : the 5th - 7th human *member-of-the-being* :

4th soul process of 8 Lotus petals of the 16petaled lotus flower, to be developed by oneself : monitoring my outer activity : pondering on the workings of my actions, integrating my actions harmoniously into the surroundings.

4th opening a **signet* --> an eagle, corresponding to the religious revival.

5th

5 Buddhist virtues : not to kill or hurt any animal ; not to accept anything that is not given to me ; not to exert any debaucherous sensual activities ; not to lie or speak complaisantly ; not to consume any substances that confound the spirit or becloud consciousness.

5 civic = economic virtues : orderliness ; thriftiness ; diligence ; cleanliness ; punctuality.

5 knights' virtues in mediaval mittelhochdt. *minnesong* : *staete* = persistence {meaning integrity} ; *minne* = serving ladies, or *agape* ; *hoher muet* = cheerful serenity/enthusiasm ; *mâze* = moderation ; *triuwe* = sincere fidelity.

5 world nights = *pralayas*.

5th *age* of the *planetary development state* of *EARTH* = *Post-Atlantean *age*.

5th *chakra* = solar *chakra*. - (5th *chakra* for Steiner = lumbo - sacral *chakra*) [= 6th *chakra*] : intestine.

5th *consciousness state* = psychic *consciousness* = *aura consciousness* = *Jupiter consciousness* : = image consciousness {= 3rd} + waking day *consciousness* {= 4th} : originating during the 5th **planetary development state JUPITER*.

J. Lexical Part

- 5th *cultural period* = our = Anglo-Saxon-Germanic [1413 - 3573 CE]. The sciences predominating in the beginning. Corresponding to Pisces of the *zodiac, and planet Sun in the geocentric world view {3rd of 3 sevens of years}. In human life corresponding to the 6th seven years, ages 35 – 41 years : discovering the **consciousness soul* : consolidation, questions as to the sense of life.
- 5th *elementary kingdom / realm* = *plant kingdom* = the *elementary kingdom* perceivable by the senses in gestalts, BUT IN ADDITION THE CREATING BEINGS {= 2nd *elementary kingdom*} ARE WORKING.
- 5th meditation step of the purely Christian *initiation : mystical death, descending into the hell of self-cognition --> severing the curtain when entering the *spiritual world*.
- 5th grade of the oriental *initiation : named according to one's home country : is completely absorbed in public sentiment.
- 5th meditation step of the Rosicrucian *initiation : *macrocosmos* and *microcosmos* corresponding to each other.
- 5th *life state* = *plant kingdom* = the *elementary realm* with gestalts perceivable to the senses, BUT IN ADDITION CREATING BEINGS {= 2nd *elementary realm*} ARE WORKING.
- 5th human **member-of-the-being* : *Geistselbst=Manas*.
- 5th opening a *signet --> early Christianity.
- 5th soul process of 8 Lotus petals of the 16petaled lotus flower, to be developed by oneself : ordering my entire life : living in accordance with nature and spirit, not overly active nor easygoing ; life = a means to work, to care for good health and habits, is to render possible a harmonious life.

6th

- 6 organs in Buddhism : 5 sensory organs + **Manas*.
6 Elohim on the Sun.

- 6th *age of the planetary development state of EARTH* = *age of the 7 *signets.
- 6th *chakra* = lumbo - sacral *chakra*. - (6th *chakra* for Steiner = root *chakra*) [= 7th *chakra*] : excretory organs.
- 6th *consciousness state* = psychic consciousness {= 5th} + everything man of today is still sleeping about = consciousness state of *inspiration* = of harmonious sounds = of spherical harmonies = *Venus consciousness* : originating during the 6th **planetary development state VENUS*, corresponding to *Sun consciousness* {= 2nd}, but more clear.*
- 6th *cultural period* = Slav [3573 - 5733 CE]. Corresponding to Aquarius of the *zodiac, and planet Mars. In human life corresponding to the 7th seven years, ages 42 - 48 years : discovering **Manas* : creativity, courage.
- 6th *elementary kingdom / realm* = *animal kingdom* = the *elementary kingdom* perceivable by the senses in gestalts, and in addition the creating beings {= 2nd *elementary kingdom*} AND THE BEINGS EFFECTING IN THE SOUL {= 3rd *elementary kingdom*} ARE WORKING.
- 6th meditation step of the purely Christian *initiation : entombment and resurrection : everything on Earth is united to me in its terrestrial existence, up to the planet's deepest sul = the Christ's soul.
- 6th grade of the oriental *initiation : Sun hero.
- 6th meditation step of the Rosicrucian *initiation : living into the *macrocosmos*.
- 6th *life state* = *animal kingdom* = the *elementary realm* with gestalts perceivable to the senses, but in addition creating beings {= 2nd *elementary realm*} are working AND SO ARE THE BEINGS THAT LIVE OUT PSYCHICALLY {= 3rd *elementary realm*}.
- 6th human **member-of-the-being* : *life *spirit = *Buddhi=Budhi*.
- 6th opening a *signet -->
- 6th soul process of 8 Lotus petals of the 16petaled lotus flower, to be developed by oneself : monitoring my pursuit in accord with my capabilities, my abilities : act according to my forces, but my ideals, too ; comprehend my life tasks in the human turmoil, looking further than everyday issues.

7th

Number of development

- 7 headed animal of the Apocalypse.
- 7 Apocalyptic bowls of wrath : symbolizing the 2nd step as far as the 3b-stage of the *Christian *initiation*.
- 7 candleholders.
- 7 *elementary states on Earth* : 4 **elements* {*warmth, gas-air, liquid-watery, solid-earthy*} +3 **ethers* {*light ether, chemical / sound / tone / number ethers, life ether*}.
- 7 essential elements of an organization : 1st .identity, 2nd the plane of strategy and politics, 3rd structures, 4th human groups and the psycho-social landscape, 5th the functions of everyone, 6th the processes, 7th the physical bases of the organization : the technical-instrumental system including finances. {Jäckel, Harald {1952-} in info 3, 1/2017, pg 31}.

J.3. Numbers and Enumerations

- 7 *elohim* = 7 spirits of light = 7 spirits of form = 6 *elohim* on the Sun + Jahve *elohim* as Moon spirit.
- 7 stages of *Christian *initiation* = 7 steps, to be perceived on the purely *Christian *initiation* path according to St. John's gospel.
- 7 kings of Rome.
- 7 letters to the Christian communities symbolize the 1st step of the 0 stage of *Christian *initiation*.
- 7 life organs = „*vascular organs (...), (...) organization of the ether body*“ (R.Steiner 148:194).
- 7 *life states* in every **consciousness step*, corresponding to 7 **kingdoms / realms*.
- 7 lights, golden.
- 7 Maccabean sons.
- 7 human **members-of-the-being* {out of 10} : 3 **body members* = *body grades* : **physical body*, **ether body*, **astral body* : developing up to the animal state of development. 3 **soul members* = *soul grades* : **sentient soul*, **(reasoning &) mind soul*, **consciousness soul* : developing during the human state of development. 3 *spiritual members* = *spiritual grades* : **spirit self* = **Manas*, **life spirit* = **Bu(d)dhi*, **spirit man* = **Atma(n)* : developing from the **planetary development state of *JUPITER on*. The *astral body* and the *sentient soul* may be regarded as merging, and so do the *consciousness soul* with the *spirit self*, → 7 **human *members-of-the-being* .
- 7 parts of man on Earth.
- 7 occultism's ineffable secrets (R.Steiner 96:36 f).
- 7 *planetary development states*.
- 7 principles, human = human nature of 7 members = 7 **members-of-the-being*.
- 7 principles, not human.
- 7 Rishis, Holy : founded the primordial Indian=1st **Post-Atlantean *cultural period*.
- 7 Saturn orbits, great, = 7 great Saturn days {including 2 Saturn days of dusk} + 5 great Saturn nights.
- 7 = sevens of years of the individual development.
- 7 signets of the Revelation : symbol of the 6th **age* of the **mineral-physical *form state* of **EARTH*, symbolizing the 2nd step to the 1st stage of the *Christian *initiation*, because visible.
- 7 sins, mortal : haughtiness {Superbia}, greed {Avaritia}, lust {Luxuria}, rage {Ira}, gluttony {Gula}, jealousy {Invidia}, idleness {Acedia}. =/= 7 virtues, heavenly.
- 7 spirits of God in man.
- 7 sublimation steps of the soul after death.
- 7 steps of the **spiritual world*.
- 7 tones of the harmony scale {→ octave}.
- 7 trombones of the Revelation : symbol of the 7th **age* of the **mineral-physical *form state* of **EARTH*, symbolizing the 2nd step to the 2nd stage of the *Christian *initiation*, because audible.
- 7 heavenly virtues : humbleness {Humilitas}, charitableness {Caritas}, chastity {Castitas}, patience {Patientia}, temperance {Temperantia}, benevolence {Humanitas}, diligence {Industria} ; =/= 7 mortal sins.
- 7 world days = **manvantaras*. =/= **pralayas*.
- 7 *world stars* = 7 planets of the solar system.
- 7th *age* of the *planetary development state* of *EARTH* = **age* of the 7 **trombones*.
- 7th *chakra* = root *chakra*. - (7th *chakra* for Steiner = foot sole *chakra*).
- 7th *consciousness state* = *spiritual consciousness* = universal *consciousness* = *Vulcan consciousness* : originating during the 7th **planetary development state VULCAN*, corresponding to *Saturn consciousness* {= 1st }, but more clear.
- 7th = American *cultural period* [5733 - 7893 CE]. Corresponding to Capricorn of the **zodiac*, and planet Jupiter. In human life corresponding to the 8th seven years, ages 49-56 years : discovering : composure.
- 7th *elementary kingdom / realm* = *human kingdom* = *the elementary kingdom* perceivable by the senses in *gestalts*, and in addition the creating beings {= 2nd *elementary kingdom*} and the beings effecting in the soul {= 3rd *elementary kingdom*} are working AS WELL AS THE BEINGS BY WHOM THE SPIRIT HIMSELF TAKES SHAPES IN THE SENSORY WORLD IN THE FORM OF THINKING:
- 7th meditation step of the purely *Christian *initiation* : ascension.
- 7th grade of the oriental **initiation* : Father.
- 7th meditation step of the Rosicrucian **initiation* : divine bliss.
- 7th *life state* = *human kingdom* on *EARTH* = *the elementary realm* with *gestalts* perceivable to the senses, but in addition creating beings {= 2nd *elementary realm*} are working and so are the beings that live out psychically {= 3rd *elementary realm*} PLUS WHEN THE SPIRIT HIMSELF FORMS THOUGHTS IN THE SENSORY WORLD:
- 7th human **member-of-the-being*: **spirit man* = **Atma(n)*.
- 7th opening a **signet* --> 7 angels in front of God, corresponding to leading to God, or **initiation*.

7th soul process of 8 Lotus petals of the 16petaled lotus flower, to be developed by oneself : to learn as much of life as I can, experiencing as much as I can of what suits my life ; learning from my own mistakes as well as those of others ; consulting my own experiences.

8th

8-petaled Lotos blossom : are Lotos petals presented to humans out of the 16petaled Lotos blossom {2nd chacra for Steiner}. Man had lost knowing about them because he had distanced himself from the spiritual. He will reach them again when earning the other 8 Lotos petals by and by : → 1st - 8th *soul process.

8 Lotos petals to be acquired {2nd *chacra} : 2/1st act : the way how to gain notions : each notion is to become more and more important. 2/2nd act : the way how to gain decisions : only out of complete thinking, vis-à-vis unimportant issues, too. 2/3rd act : uttering only what makes sense and has meaning ; answering to anybody in a thoughtful way. 2/4th act : acting outwardly so that it will fit fellow human beings and processes in the surroundings. 2/5th act : living in accordance with life and spirit ; Life as a means of working. 2/6th act : probing self-cognition of one's faculties ; searching one's task in the surroundings. 2/7th act : learning from life as much as we can. 2/8th act : to sink into oneself from time to time.

8-fold path : 1st right view ; 2nd right resolve ; 3rd right speech ; 4th right conduct or action ; 5th right livelihood ; 6th right effort ; 7th right mindfulness ; 8th right samadhi [meditation, equanimity].

8-fold path : the Noble Eightfold Path {Pali: ariya aṭṭhaṅgiko maggo, Sanskrit: āryāṣṭāṅgamārga} :

1. Right View: various summaries of "right view" can be found in the sutras. A stock phrase is the opening of the dhamma-eye, in which knowledge arises: "all that has the nature of arising has the nature of ending"; showing the futility of striving after worldly fulfillment. More extensive treatments state that our actions have consequences, death is not the end, and our actions and beliefs have consequences after death. The Buddha followed and taught a successful path out of this world and the other world (heaven and underworld/hell), and his example is to be followed. Later on, right view came to explicitly include *karma* and rebirth, and the importance of the Four Noble Truths, when "insight" became central to Buddhist soteriology, especially in Theravada Buddhism.
2. Right Resolve (*samyaka-samkalpa/sammā-saṅkappa*) can also be known as "right thought", "right aspiration", or "right motivation". In this factor, one resolves to leave home, renounce the worldly life and follow the Buddhist path. The practitioner resolves to strive toward non-violence (ahimsa) and avoid violent and hateful conduct.
3. Right Speech: no lying, no abusive speech, no divisive speech, no idle chatter.
4. Right Conduct or Action: no killing or injuring, no taking what is not given, no sexual misconduct, no material desires.
5. Right Livelihood: no trading in weapons, living beings, meat, liquor, or poisons.
6. Right Effort: preventing the arising of unwholesome states, and generating wholesome states, the *bojjhaṅgā* (Seven Factors of Awakening). This includes *indriya-samvara*, "guarding the sense-doors", restraint of the sense faculties.
7. Right Mindfulness (*sati; Satipatthana; Sampajañña*): a quality that guards or watches over the mind; the stronger it becomes, the weaker unwholesome states of mind become, weakening their power "to take over and dominate thought, word and deed.". In the vipassana movement, *sati* is interpreted as "bare attention": never be absent minded, being conscious of what one is doing; this encourages the awareness of the impermanence of body, feeling and mind, as well as to experience the five aggregates (*skandhas*), the five hindrances, the four True Realities and seven factors of awakening.
8. Right *samadhi* (*passaddhi; ekaggata; sampasadana*): practicing four stages of *dhyāna* ("meditation"), which includes *samadhi* proper in the second stage, and reinforces the development of the *bojjhaṅgā*, culminating into *upekkhā* (equanimity) and mindfulness. In the Theravada tradition and the vipassana movement, this is interpreted as *ekaggata*, concentration or one-pointedness of the mind, and supplemented with *vipassana* meditation, which aims at insight. [en.wikipedia.org 12/25].

8-gliedriger Pfad Buddhas : drei Gruppen 'Weisheit' {paññā; erster und zweiter Teil}, 'Sittlichkeit' {sīla; dritter bis fünfter Teil} und 'Vertiefung' {samādhi; sechster bis achter Teil}. / Allen Gliedern ist das Adjektiv 'sammā' vorangestellt, was soviel heißt wie 'recht' oder 'vollkommen'. Buddhas Weg ist ein Weg der Mitte, der alle Extreme meidet. Die ersten beiden Glieder beziehen sich auf das Denken und die Gesinnung {Motivation}. Für einen Buddhisten fängt das Tun nicht erst mit der Tat an, die Vorbereitungen für eine Tat finden immer im Denken statt, ob bewusst oder unbewusst. Die Glieder drei bis fünf beziehen sich auf das sittliche Verhalten, und bei den letzten drei Gliedern geht es um das Geistestraining, den Zugang zur spirituellen Dimension. / Der Begriff 'Pfad' ist hier nicht im Sinne

eines linearen Fortschreitens von Stufe zu Stufe gemeint: alle Komponenten sind von gleicher Wichtigkeit und sollten daher von einem Buddhisten jederzeit beachtet und geübt werden. Ferner gibt es - entsprechend der Lehre vom Nicht-Selbst - viele Querverbindungen und gegenseitige Abhängigkeiten unter den einzelnen Pfadgliedern. So gehört die 'rechte Rede' beispielsweise zum Bereich des 'rechten Handelns' und 'rechtes Handeln' ist wiederum nur in Verbindung mit 'rechter Achtsamkeit' möglich. 'Rechte Sammlung' trainiert wiederum auch die 'Achtsamkeit'. // Weisheits-Gruppe : Vollkommene Weisheit {skt. Prajna, P. paññā} ist Ziel des buddhistischen Erkenntnisvorgangs, der von Unwissenheit {Avidya} zum Erwachen {Bodhi} führt. Die beiden Glieder dieser Gruppe verweisen auf förderliches Wissen und eine förderliche Geisteshaltung. :

- {1.} Rechte Erkenntnis : Rechte Erkenntnis {sammā ditṭhi} ist die Einsicht in die Vier Edlen Wahrheiten vom Leiden, der Leidensentstehung, der Leidenslöschung und des zur Leidenslöschung führenden Achtfachen Edlen Pfades {D 22}. Im weiteren Sinne umfasst rechte Erkenntnis die Einsicht in weitere zentrale buddhistische Lehrinhalte, insbesondere: das Gesetz vom Bedingten Entstehen, das die Ursachen des Wiedergeburtkreislaufts {Samsara} und dessen Überwindung {Nirvana} aus buddhistischer Sicht erklärt {MN 9}, die Drei Daseinsmerkmale Unbeständigkeit, Leidhaftigkeit und Nicht-Selbst, denen alle physischen und psychischen Phänomene unterworfen sind {MN 35}, das Karma-Prinzip, das zwischen heilsamen {kusala} und unheilsamen {akusala} Willenshandlungen unterscheidet {MN 117}.
- {2.} Rechte Gesinnung : Rechte Gesinnung ist der Entschluss zur Entsagung, zum Nichtschädigen, zur Enthaltung von Groll {D 22}. Rechtes Denken ist ohne Habgier, hasslos in der Gesinnung und großzügig {a 10,176}. Im weiteren Sinne versteht etwa der Zen-Mönch Thich Nhat Hanh Rechtes Denken als Aufforderung, die Gedankenwelt ständig zu prüfen: Handelt es sich um einen heilsamen Gedanken, also einen Gedanken, der mir und den anderen Wohl beschert, oder um einen unheilsamen Gedanken, der mir und anderen Ungemach oder Leiden beschert? // Sittlichkeits-Gruppe : Die Sittlichkeits-Gruppe enthält Tugendregeln {sīla}. Sie benennen Verhaltensweisen, die nach dem Karma-Prinzip heilsam {kusala} sind. Untugendhaftes Verhalten ist unheilsam {akusala} und verursacht Leiden {Dukkha}. Im weiteren Sinne versteht man unter dieser Gruppe den Verzicht auf böse Taten.
- {3.} Rechte Rede : Rechte Rede meidet Lüge, Verleugnung, Beleidigung und Geschwätz {D 22, a 10,176}. Wie die Gedanken ist die Rede heilsam oder unheilsam, nützlich oder unnützlich, wahr oder falsch. Ein Wort des guten Wandels ist, «... wenn es zur rechten Zeit gesprochen wird, wenn es wahr, höflich, zweckmäßig ist und aus liebevoller Gesinnung kommt.».
- {4.} Rechtes Handeln : Rechtes Handeln vermeidet Töten, Stehlen und sinnliche Ausschweifungen {D 22; a 10,176}. Im weiteren Sinne bedeutet es ein Leben gemäß den Fünf Silas, den Tugendregeln des Buddhismus.
- {5.} Rechter Lebenswandel : Rechter {Lebens-} Wandel bedeutet auf unrechten Lebenswandel zu verzichten {D 22}. Namentlich werden fünf Arten von Tätigkeiten genannt, die ein buddhistischer Laienanhänger nicht ausüben sollte und zu denen er Andere nicht veranlassen sollte {a 5,177} : Handel mit Waffen, Handel mit Lebewesen, Tierzucht und Handel mit Fleisch, Handel mit Rauschmitteln, Handel mit Giften. Im weiteren Sinn bedeutet rechter Lebenserwerb, einen Beruf auszuüben, der anderen Lebewesen nicht schadet und der mit dem Edlen Achtfachen Pfad vereinbar ist. Zudem wird darunter verstanden, dass man, egal was man tut, immer mit dem Gedanken im Hinterkopf arbeiten geht, das Geld nicht nur für sich selbst zu behalten sondern mit anderen zu teilen. // Vertiefungs-Gruppe : Ein gesammelter Geist {samādhi} ist Ziel dieser Glieder des Edlen Achtfachen Pfades. Sie beschreiben den Übungsweg zur Geistesschulung, insbesondere die Meditation. Außerdem versteht man unter dieser Gruppe im weiteren Sinn die Vollführen von guten Taten.
- {6.} Rechtes Streben : Rechtes Streben oder rechte Einstellung bezeichnet den Willen, Affekte wie Begierde, Hass, Zorn, Ablehnung usw. bei Wahrnehmungen und Widerfährnissen zu kontrollieren und zu zügeln. Wie beim 'rechten Denken' geht es hier um das Prüfen seiner Gedanken, und das Austausch unheilsamer Gedanken durch heilsame Gedanken: «... wenn böse, unwürdige Erwägungen aufsteigen, Bilder der Gier, des Hasses und der Verblendung, aus dieser Vorstellung eine andere gewinnen, ein würdiges Bild ...».
- {7.} Rechte Achtsamkeit : Rechte Achtsamkeit betrifft zunächst den Körper: Bewusstwerdung aller körperlichen Funktionen wie Atmen, Gehen, Stehen usw.; Bewusstwerdung gegenüber allen Sinnesreizen, Affekten und allen Denkinhalten. Sie sollen umfassend bewusst gemacht sein, ohne sie kontrollieren zu wollen. Die Achtsamkeit auf das 'Innere' prüft die Geistesregungen und benennt sie. Es geht um ein Bewusstwerden des ständigen Flusses der Gefühle und der Bewusstheitszustände. Die Achtsamkeit auf das 'Äußere' bewirkt, ganz im Hier-und-Jetzt zu sein, nicht der Vergangenheit nachzugröbeln und nicht in der Zukunft zu schwelgen. Das heißt auch ganz bei einer Sache oder Person zu sein, mit der man in diesem Augenblick konfrontiert ist, oder bei einem Gespräch, das man führt.

{8.} Rechte Sammlung : Rechte Sammlung {sammā samādhi} bezeichnet die Fertigkeit, den unruhigen und abschweifenden Geist zu kontrollieren. Häufig auch als einspitziger Geist oder als höchste Konzentration bezeichnet, ist sie ein zentraler Teil der buddhistischen Spiritualität. Um zur rechten Sammlung zu kommen, haben die buddhistischen Schulen viele Methoden und Techniken entwickelt. Es geht hier im Wesentlichen um eine buddhistische Meditation, die vor allem die Konzentration auf ein einziges Phänomen {häufig den Atem} verwendet, wodurch der Geist von Gedanken befreit wird und zur Ruhe kommt. Siehe auch: Jhana und Samatha. // Übersetzung des Begriffes sammā : Die Verwendung des Begriffes 'recht' zur Kennzeichnung der einzelnen Pfadglieder stellt eine Übersetzung des Pali-Wortes samma dar. Die meisten Übersetzer - wie Karl Eugen Neumann, Nyanaponika, Kurt Schmidt, Wilhelm Geiger, Klaus Mylius, Ajahn Buddhadosa - sind sich bei der Übertragung von sammā durch 'recht' einig. Im Lexikon der östlichen Weisheitslehren heißt es: «Lama Govinda gibt sammā mit ‚vollkommen‘ wieder, um der ursprünglichen Bedeutung des Wortes im Sinne einer ‚Ganzheit‘ oder ‚Vollständigkeit‘ gerecht zu werden. Der Begriff sammā weist nicht auf den Gegensatz ‚recht-falsch‘ hin, wie im Deutschen bei einer Übersetzung durch ‚recht‘ irrtümlich angenommen werden könnte.» Dies leuchtet unmittelbar ein, wenn man sammā in der Verehrungsformel 'sammā sambuddhasā' mit 'der vollständig oder völlig Erleuchtete' übersetzt. Es findet sich von daher auch die Übersetzung 'Vollkommener Entschluss'. [wikipedia.de].

8 members of Buddha's path {preparation : Buddha's sermon in Benares} : „Man will come to know about the world if he will acquire a correct attitude of things, an attitude that does not have anything to do with sympathy or antipathy or with what he is convinced of, but by trying eagerly to arrive at winning a correct attitude about anything - purely according to what confronts him from outside.

- 1st : The 'correct ATTITUDE' of something.
- 2nd : We need to grow independent of what is left over from earlier incarnations. So as to strive to evaluate, too, by our correct attitude - not by other influences but solely by what is our own correct attitude. So the 2nd endeavor is about 'correct EVALUATION'.
- 3rd : When communicating with the world we should strive to express correctly what we mean to tell : what we really mean and evaluated correctly. We should not intend anything we are not convinced of - not only when using words but when expressing anything by our personality. This is the 'correct WORD' with Buddha.
- 4th : We need to strive to exert our actions not by sympathy od antipathy, not by what churns within ourselves as Samskara. Instead we should come to do what we understood to be our correct attitude, evaluating it correctly, and finding the correct word. So this is the correct action, the 'correct ACTIVITY'.
- 5th : To get free from what is living within ourselves we need to achieve the correct stand, the correct stature in the world. We can best get clear what Buddha meant by telling ourselves : There are so many people discontent with their task in the world, meaning they could do better in this or that different situation. Instead man ought to arrive at the chance to make the best of what he was born into, or where his destiny brought him. I.e. winning the best stand. Whoever does not feel content with the position he is in, will not be able to draw from this position forces to effect correctly in the world. This is what Buddha calls : winning the 'correct STAND'.
- 6th : We should take care more and more to develop habits of what we attained by correct attitude, correct evaluation etc. When being born into the world we get used to things. The child shows this or that inclination or habit. Man however ought to strive not to cling to habits coming from Samskara but to acquire habits by and by developing totally as his own from a correct attitude, correct evaluation, the correct word etc. Such are the 'correct HABITS' we should acquire.
- 7th : When acting today we should not forget what was yesterday so as to order our lives. If we had to learn all our skills anew every time we would never accomplish anything. Man must try to commemorate, to develop some memory of all the things of his existence. He needs to make use of everything he had learned already. He needs to tie the present to the past. So acquiring 'correct MEMORY' - in the Buddhist meaning - is what man should do on the eight-fold path.
- The 8th is what man will win by not preferring this or that attitude or what came to him from earlier incarnations, is to indulge in things, to immerse in them, and letting just the things speak to him. This is 'correct SEDATENESS'.“ (R.Steiner 114:75 ff).

8th member-of-the-being, beyond humanity : Holy Spirit.

8th soul process of 8 Lotus petals of the 16petaled lotus flower, to be developed by oneself : {Introspection} : sinking into oneself, deliberating with oneself, building and probing one's basic attitudes concerning life, perusing one's skills thoughtfully, pondering one's tasks, considering contents and aims of life.

9th

9 noble virtues : honor, fidelity, courage, truth, hospitality, independence, discipline, industriousness, perseverance.

9th member-of-the-being, beyond humanity : Son = Word.

10th

10 commandments = decalogue {2nd Mosis 20, 2-17} :

„Was einer anderen {= indischen} Menschheitsströmung als innerlicher Besitz zukommen sollte : das wurde in dem 10-Gebote-Gesetz als eine Summe von äußeren Gesetzen dem althebräischen Volk wie etwas gegeben, was man von außen empfing, {und} {im Unterschied zu Zarathustras Lehren} was noch nicht mit der Seele verwachsen war. Daher empfindet der Angehörige des althebräischen Volkes die Gebote als etwas, was ihm vom Himmel herunter gegeben worden ist wegen der Kindlichkeit seiner Entwicklungsstufe. -“
(R.Steiner 114:132 f).

What was meant to be given over to a different {= the Indian} stream of mankind as an internal possession : became the decalogue as a sum of outside laws, handed over to the ancient Hebrew people something received from outside, {and} what was not coadunated with the soul yet {contrasting to Zarathustra's teachings}. This is why the member of the ancient Hebrew people feels the decalogue to have been handed down to him from heaven because his developmental state is childish. -

10-petaled Lotus blossom : organ to recognize souls near the plexus solaris {4th *chakra according to Steiner} : 'to make oneself master of what is working from the outer world' . 'perceive in souls deeply hidden characteristics'. But freeing oneself from deceptions. {= monitoring counter transfer}.

10th member-of-the-being, beyond humanity : Father.

12th

Number of group building

12 anthroposophic virtues, corresponding to the zodiac : courage corresponding to Capricorn [12/22 – 1/20], discretion corresponding to Aquarius [1/21 – 2/18], magnanimity corresponding to Pisces [2/19 – 3/20], reverence corresponding to Aries [3/21 – 4/20], inner equilibrium corresponding to Taurus [4/21 – 5/20], perseverance corresponding to Gemini [5/21 – 6/21], selflessness corresponding to Cancer [6/22 – 7/22], compassion corresponding to Lion [7/23 – 8/22], politeness corresponding to Virgo [8/23 – 9/23], contentment corresponding to Libra [9/24 – 10/23], patience corresponding to Scorpio / Eagle [10/24 – 11/22], thought control corresponding to Sagittarius / Centaurus [11/23 – 12/21].

12 bodhisattvas = *fire *spirits* = archangels = archangeloi = Mercury's sons : 2nd grade {3,2} of the *angels* in the broad sense {3}.

12 cherubim.

12 cerebral nerves.

12 constellations of the *zodiac : the Sun's spring equinox advances counterclockwise.

12 initiation helpers.

12 disciples.

12 forces, cosmic.

12 radiations, cosmic.

12 rivers of Germanic mythology.

12 senses [Albert Soesman 1994] : 1 - 4 : PHYSICAL SENSES : turning to one's own body.

- 5 - 8 : SOUL SENSES : relationship man – world.

- 9 - 12 : INNER, SPIRITUAL, SOCIAL SENSES : turning to the interior, revealing what is hidden.

1) touch : one's own limitations.

2) life : building / depleting one's own constitution.

3) proper motion : being active / expressing oneself by one's body.

4) balance : orienting oneself with gravitation [created world]. --

5) smelling : letting deplete and refill oneself [materially].

6) taste : controlling what is ponderable : what is to my microcosmos [turned to the inside].

7) vision : experiencing what is imponderable [influence of the Sun / light] in the macrocosmos [turned to the outside].

J. Lexical Part

- 8) warmth : streaming into the world with interest [non-material]. --
- 9) hearing : rising up to matter's spirit [creating force].
- 10) wording : being active / expressing one's spirit to the other one.
- 11) thinking : truth / untruth in the other one's spirit.
- 12) 'I'-sense : de-segregating the other one.

12-petaled Lotus blossom : organ to recognize the soul near the heart (3rd chakra with Steiner) : those who are experienced with the help of the *16petaled Lotus blossom will emanate warmth of the soul {--> growing, developing} or coldness {--> decay, destroy, go under}.

13th and more

13th being in the center of the 12 bodhisattvas :

„(...) das wir nicht in demselben Sinne einen Lehrer nennen können wie die 12 Bodhisattvas, sondern das wir nennen müssen dasjenige Wesen, von dem die Weisheit selber ausströmt. (...) Die Bodhisattvas sitzen in der großen Geistloge um ihren Mittelpunkt herum ; sie sind in dem Anschauen der großen Wesenheit versunken, die ihnen alles zuströmt, was sie dann als ihre Mission in die Erdentwicklung hineinzutragen haben. So strömt von diesem 13. das aus, was die anderen zu lehren haben. Sie sind die Lehrer, {=} die Inspiratoren ; der 13. ist als Wesenheit selber das, was die anderen lehren. Über ihn verkünden sie immer von Epoche zu Epoche. Dieser 13. ist derjenige, den die alten Rishis nannten Vishva Karman, den Zarathustra nannte Ahura Mazdao ; das ist der, den wir den Christus nennen.“ (R.Steiner 114:160).

(...) we cannot name a teacher in the same way as the 12 bodhisattvas are to be called. Instead we need to name the Being emanating wisdom itself. (...) In the great spiritual lodge the bodhisattvas are sitting around a center ; sunken in beholding the high Being streaming to them everything they are to bring into the Earth's development as a mission. From the 13th one there is streaming what the others are to teach. It is them the teachers, it is them who inspire ; the 13th one is Himself the Being the others are teaching of. From epoch to epoch they are preaching of Him over and over again. The 13th is the one the ancient Rishis called Vishva Karman, and Zarathustra called Ahura Mazdao ; it is the one we call the Christ.

666 : Revelation 13:16-18.

666 CE : see *Gundeshapur. - There are other interpretations of 666 , too. 666 may be the sum of other letter combinations. „NeRON KeSeR“, for instance. Written in the Semitic way, without the short vowels, and adding up the Hebrew numeric values results of letters, results in 666 , too. The fact that this number is mentioned in the Revelation which was written around 100 CE on the island of Patmos in ancient Greek and dedicated - the same as the 4th gospel - to St. John, Jesus' favorite disciple, seems to hint, according to a theological interpretation of the 19th century, at Nero [37 - 68], Roman emperor from 54 – 68 . In 66 CE he had ordered to put down the Jews' rebellion. The campaign lasted longer than Nero's death, up to 74 CE. In 70 CE Jerusalem was destroyed. The early Christians may have taken Nero for responsible for this atrocity as the initiator. They may have called him the Anti-Christ, encrypting it in a way unknown to the Roman occupying officials. - With 666 R. Steiner (104:223 f) does not indicate a year, but instead the three numerals '6' , '6' , and '6' denote that the end of time sections of sevens is drawing near. With '7' , '7' , and '7' the corresponding end is irrevocable. With '6' , '6' , and '6' humans may still take up the chance of changing their ways, i.e. in Christendom take up the *Christ's impulse* if they had not done so before. Otherwise they would be in danger of succumbing to *Sorat. So '6' , '6' , and '6' means : the last but one *planetary development state* : *VENUS*, whose last but one *age* will be the sixth, and the last but one *epoch* to this is the sixth one again.

„Die Anlage zu diesem Hinuntersteigen in den Abgrund in urferner Zukunft nehmen die Menschen schon (...) in dem {finalen} Zeitalter, wenn die siebente Posaune erklingt, in sich auf.

Mankind will be prone to descending into the abyss in far times to come, (...) in the {final} age when the seventh trumpet will

Zwar wird es noch lange Zeit möglich sein, dass die Menschen, die solche Anlage {zum Bösen} dann in sich aufgenommen haben, umkehren, {und} sich bekehren können ; {und} dass sie zurückkehren in ihrer Entwicklung, um dann {doch} noch das Christus-Prinzip in sich aufzunehmen. Aber die erste Anlage ist geschaffen, und diejenigen, die bei dieser Anlage bleiben : die werden dann, wenn jene urferne Zukunft kommen wird, die (...) durch 6 6 6 angedeutet wird, diese Anlage nicht mehr umwandeln können in gute Anlagen.“ (R.Steiner 104:224).

resound. It is true mankind may still reverse for a long time after having accepted such an Anlage {to do evil}, {and} they may convert returning the development so as to accept the Christ's principle into themselves. The first Anlage however is done and those remaining with the Anlage will not be able any more in the far future to revert from what is indicated by 6 6 6, into good Anlagen.

1332 CE = 2 x 666 CE, see *Sorat. Just about the beginning of Sorat's attack on mankind. Partly averted by the *Rosecrucians*.

1998 CE = 3 x 666 CE, see *Sorat. The beginning of the 3rd and last, decisive attack of Sorat, Ahriman, and Lucifer on mankind, to deviate it from the *spiritual* destination which is to approach the *spiritual worlds* by deciding consciously and freely, and be responsible for the decisions.