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### **C. THE CLASSIFICATION OF COSMIC MOTIONS (PHYSICS: MASS, MATTER, MATERIALITIES)**

**1** The fourth, fifth and sixth axes would be the axes of a psyche space of three dimensions. By looking out from us we could observe the three dimensions of a solid body. The other dimensions could only come from the psyche body that does not possess the space dimensions but possesses motion at the same spot. And motion at the same spot is a motion in time dimensions. The contents of this psychic space would consist of various grades of psyche hydrogen found in all inner spaces of every being. Each being would have an inner space that is three-dimensional. It is a bodiless time-like body. The first second and third axes are for objects outside us and in *World One*. The fourth, fifth and sixth axes are for objects in *World Two* and *World Three*.

**2** In the exact positive science of our modern era W. Kaufman showed that the mass of an electron increases rapidly as its speed nears the velocity of light. Now it can be said, in general, that the mass of a material body will increase rapidly as it approaches the velocity of light. But is the velocity of light the greatest velocity ever known? Can there be any other 'greater velocity' of some other 'bodies'? Now no matter what the standard 'speed' be cited, we can generally say that the 'mass' of a material body will increase in a certain 'geometric proportion' with speed. But what is mass? According to exact positive science it is a quantitative measure of the 'amount of matter' present in the material body. It is a quantitative measure of a qualitative foundation. Newton conceives 'mass' as a constant factor, unalterable, independent from 'velocity' of the body'. Here Newtonian concept is abandoned only for particles which travels at great speeds, that is, near the speed of light because it is contrary to modern discovery for particles moving at that

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speed. But the basic problem remains unsettled: Why is it that ‘mass’ can change with speed (becomes a variant with speed)? If we are to accept the fact that ‘mass’ is the ‘amount of matter’ then we must recognize the fact that the ‘materiality’ of the solid body in motion must have changed from the materiality of matter in world 48 to that of the materiality of matter in world 12. We must recognize the fact also of the presence of different materiality and of the possibility of a change of materiality with velocity of a said ‘piece of matter’. If the piece of material body reaches the speed of light it becomes light itself, its materiality is different. It belongs to ‘light’ the world of suns, i.e. in world 12 of world 6. If it transforms into the next octave of motion, it becomes ‘consciousness’ or ‘psychons’ – not the same as ‘light’.

### **The Materiality Difference of Matter**

(Based on Ouspensky’s *In Search of the Miraculous*, p.87)

#### **Legend:**

- Density of being-psyche atoms increases moving from World 1 to World 96
- The degree of freedom of being-psyche atoms decreases from World 1 to world 96
- This atom is not equivalent to science notion of atom. It is the lowest divisible limit of psyche-matter as they exist for the stopindering of psyche-matter from World 1 to World 96. It is a being psyche atom.

<b>An ‘atom’ with psyche hydrogens</b>	<b>Levels of Materiality</b>	<b>No. of Laws Subjected</b>
•	Do - World 1 (An ‘atom’ of the Absolute)	1 law
•••	Si - World 3 (An ‘atom’ of ‘All Worlds’)	3 laws
••• •••	La - World 6 (An ‘atom’ of ‘All Suns’)	6 laws
•••• •••• ••••	So - World 12 (An ‘atom’ of the Sun)	12 laws
•••••	Fa - World 24 (An ‘atom’ of ‘All Planets’)	24 laws

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..... .....		
..... ..... ..... ..... ..... .....	Mi - World 48 (An 'atom' of the Earth)	48 laws
..... ..... ..... ..... ..... ..... .....	Re- World 96 (An 'atom' of the Moon)	96 laws

**3** According to science, matter's inner cosmic stopinders are:

1.	<i>Do-microcosmos</i> :	The Elementary Particle (Inner Octaves = The Periodic Table of Elementary Particles)
2.	<i>Re-microcosmos</i> :	The Hydrogen (The Table of Being Psyche Hydrogens)
3.	<i>Mi-microcosmos</i> :	The Atom (The Periodic Table of Elements)
// <i>(The protein trioctave or the micro-organocosmic octave)</i>		
4.	<i>Fa-microcosmos</i> :	The Molecule
5.	<i>So-microcosmos</i> :	The Compound
6.	<i>La-microcosmos</i> :	The Substance (compound system)
7.	<i>Ti-microcosmos</i> :	The Material Body

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The Periodic Table of the Elementary Particles based on the Eightfold Way and the Color and Flavor Octave (u, d, c, s, t, b) for the classification of quarks is still under research (The red, blue and green colors might be the primary stopinders). The Periodic Table for Elements or the Atom's "sociocosmic octave" started by Mendeléev, followed by Dobereiner and Newlands is already completed. The interrelationship of the Laws of Three and Seven has reached a special turning point with the works of Russell A. Smith's work, *Gurdjieff: Cosmic Secrets*.

Although particles from the octaves of elementary particles could travel very fast (approximately equal to the speed of light), they are never completely free to traverse all the stopinders of coarser and coarser density. They are normally absorbed or diverted as they enter or approach a gravity-center concentration of a material stopinder of various cosmoses.

And concerning this fine particle's material stopinder called compound, I must tell you that at this compounding of atoms of various species from the fundamental octaves of elements produces a wonderful world of great interest to all chemistry. The atoms of definite elements combine in definite ways to generate by chemical process to produce countless 'octaves' of compounds on mother Earth. And being-man is destined to help in this compound stopindering of elements because of being-partkdolg-duty (conscious labor and intentional suffering of psyche) for his difficult technocosmic coating of all his sociocosmic stopinders – and this being duties is on the mental stopinders for acquiring the data necessary for Objective Reason..

The law of chemical compounding of elements in the lower notes of the horizontal octave (inner octave) with that of elements in the higher notes of this inner octave after the 'transition elements' octave' is simply a law of the unity of opposites (Yang Vs Yin or metal Vs nonmetal) within the same horizontal octave.

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Greater atomic weights for atoms as it stopinders upwards along the periodic table of atoms means more elementary particles are present in the atoms higher up in the period as it re-octaves itself at every seven stability. More elementary particles present in an atom means more particles present in it.

The periodicity of atoms, the periodicity of elementary particles and the periodicity of being-psyche hydrogens require further development. However, the least complete one is still the periodicity of being-psyche hydrogens and the periodicity of elementary particles. It requires further research. It is possible to develop *being-psyche hydrogens* in the form of bombs that could produce specific psychic effects on the 'enemy' or just the DO-sociocosmic stopinders during the period of reciprocal destruction of psyche hydrogens in beings.

**4** Being psyche hydrogens exist in abundance in the carbon atoms, the oxygen atom, the nitrogen atoms and their long molecular chains or what is called the protein octave which would end in the next octave called the cell. So the special octave of the microcosmos at the Mi-Fa retardation point is simply the trialectical octave called the *protein trioctave* which is a lateral octave.

### **The Lateral Protein Trioctave**

(Or The Lateral Micro-Organocosmic Octave)

Do-micro-organocosmos (Psyche hydrogen = an active proton being + a passive electron being + a neutralizing neutron being)

Re-micro-organocosmos (Atom of the type Carbon ©, hydrogen (H) rich in psyche hydrogen, Oxygen (O) and nitrogen (N))

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Mi-micro-organocosmos (A living protein molecule)

Fa-micro-organocosmos (A living cell or an 'egg')

So-micro-organocosmos (A living tissue)

La-micro-organocosmos (A living organ)

Ti-micro-organocosmos (A living system)

A Do-biocosmos (A living organic being) or the biocosmic octave

Man is a tritocosmos, a note in the whole biocosmic octave

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## The Periodic Table of Elements

### The Fundamental Octaves or Periods:

Period	Elements	Electron Shells						
		K	L	M	N	O	P	Q
1 (DO)	H....He	1 2						
2 (RE)	Li....Ne	2	1 .8					
3 (MI)	Na.....Ar	2	8	1..8				
// (Retardation at MI-FA Interval)								
4 (FA)	K....Ca (top)	2	8	8	1....2			
	Sc.....Zn (mid)	2	8	9 18	2			
	Ga.....Kr (low)	2	8	18	3....8			
5 (SO)	Rb Sr (top)	2	8	18	8	1....2		
	Y Cd (mid)	2	8	18	9....18	2		
	In....Xe (low)	2	8	18	18	3....8		
6 (LA)	Cs...Ba (top 1)	2	8	18	18	8	1....2	
	Lanthanides (top 2)	2	8	18	18 + (1- 14)	8 (+ 1)	2	
	Lu Hg (mid)	2	8	18	32	9 18	2	
	Th Ru (low)	2	8	18	32	18	3....8	

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7 (Tl)	Fr....Ra (top)	2	8	18	32	18	8	1...2
	Actinides (low)	2	8	18	32	18 + (1...14)	8(+1)	2
// Retardation at Tl-DO Interval								

**Inner Octave of Period 1:**

**H (+)** // **H (-)He**  
*Do Re // Mi Fa So La Ti Do*

**Inner Octave of Period 2:**

**Li Be // B C N O F Ne** (Group O)  
*Do Re // Mi Fa So La Ti Do*

**Inner Octave of Period 3:**

**Na Mg // Al Si P S Cl Ar**  
*Do Re // Mi Fa So La Ti Do*

**Inner Octave of Period 4:**

Gases

The Group 'O' Noble

**K Ca // Ga Ge As Se Br Kr**  
*Do Re // Mi Fa So La Ti Do*

**Inner Octave of Period 5:**

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**Rb Sr // In Sn Sb Te I Xe**  
*Do Re // Mi Fa So La Ti Do*

### Inner Octave of Period 6:

**Cs Ba // Tl Pb Bi Po At Rn**  
*Do Re // Mi Fa So La Ti Do*

### Inner Octave of Period 7:

**Fr Ra // Ac** (incomplete octave after Mi-Fa retardation)  
*Do Re // Mi*

Note: The “transition elements” filling in the Mi-Fa interval is again an octave. The strangeness of these transition elements is that they play the role of filling in the MI-FA interval of the **Fundamental Octaves or Periods (vertical) starting from the FA-octaves through the TI-octaves** to enable flow of forces within the inner octaves or the genesis by seven within the atom. Again a triad series due to the operation of the law of three creates three major series of balance and they are just called *the top, the mid and the low (analogous to laujinggong in the linear sociocosmic octave)*.

Transitional elements begin to exist in and after the inner octaves of Period 4 and would exist at the Mi-Fa retardation (horizontally) but *strangely enough commencing the transition fillings of electrons from Mi of each inner octave from Period 4 onwards*. The best way to explain this point is to regard the group ‘O’ noble gas as the ‘do’ note in the beginning of all the inner octaves. In other words, group ‘O’ is placed before group ‘IA’.

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While *lau-jing-and-gong* triad fills the MI-FA interval from the FA-sociocosmic octaves up to the TI-sociocosmic octaves for a sociocosmic octave and the *head-thorax-and-abdomen* triad fills the biocosmic octaves at the animalian octave, our *top-mid-and-low* triad fills the Mi-Fa interval of the fundamental octave of elements from the FA-Microcosmic Octaves (elements).

The three primary colors or *red, green and violet* triad makes up the body of light and split the light octaves (spectrum) into three components - *red, green and violet*. The three primary stopinders for the Periodic Table of the Sociocosmic Entities are the *individual, the group and the organization*. The three primary stopinders for the biocosmic octave (or the Periodic Table of Living Things) are the cell, the tissue and the organ. The three primary stopinders for the micro-organocosmic octave are the protein molecule (gene), the cell and the tissue. The three primary stopinders for the Microcosmic Octaves or the Periodic Table of Elements are the Group IA elements, the transition elements and the group 'O' elements. The three primary psyche stopinders of the Periodic Table of Being Psyche Hydrogens are the Thinking Psyche Hydrogens, the Feeling Psyche Hydrogens and the Moving Psyche Hydrogens (They occur in the body of higher animals). The three primary stopinders for the sound octave are *Do-Re-Mi, Fa-So-La and Ti (this requires further observation)*. The three primary stopinders for the states of matter are solid, liquid and gas.

### **The Octave of the Transition Elements is:**

#### **Inner Octave 1 (the 1<sup>st</sup> transition element octave):**

**Cu Zn Sc // Ti V Cr Mn // Fe Co Ni \***

*Do Re Mi // Fa So La Ti // Do*

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**Inner Octave 2 (the 2<sup>nd</sup> transition element octave):**

**Ag Cd Y // Zr Nb Mo Tc // Ru Rh Pd \***

*Do Re Mi // Fa So La Ti // Do*

**Inner Octave 3 (the 3<sup>rd</sup> transition element octave):**

*Lanthanide Series fills this Mi-Fa retardation of the Transition Elements*

**Au Hg La // Hf Ta W Re // Os Ir Pt \***

*Do Re Mi // Fa So La Ti // Do*

**Inner Octave 4 (the 4<sup>th</sup> transition element octave):**

*Actinide Series fills this Mi-Fa retardation of the Transition Elements*

None None **Ac** // (incomplete octave after Mi-Fa retardation)

*Do Re Mi //*

**The Lanthanide Series or the Lanthanide Octave;**

**Tb Dy Ce // Pr Nd Pm Sm // Eu Gd \***

*Do Re Mi // Fa So La Ti // Do*

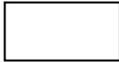
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## The Actinide Series or the Actinide Octave

**Bk Cf Th // PA U Np Pu // Am Cm**\*

*Do Re Mi // Fa So La Ti // Do*

Note:



\*

Elements that function to fill in the Ti-Do Retardation (horizontal inner octaves of the transition elements)

The atomic structure or the inner octave of an atom is completed and is as follow:

Electron Filling for the  
Transition Elements begins



Do	Re	Mi	<b>Fa</b>	So	La	Ti
1	2	3	4	5	6	7 (PS)
s	s p	s p d	s p d f	s p d f	s p d	S (SS)
2	2 6	2 6 10	2 6 10 14	2 6 10 14	2 6 10	2(TE)

Note:

PS = Principal Shell

SS = Sub-shell

TE = Total number of electrons required to fill each sub-shell

*It is obvious that you cannot seek psyche-matter (psyche-hydrogen) through the paradigm from this science. The rule is: In the octave of the inner world of each and every atom, there is one more octave amongst the octaves of elementary particles and that is the psychic octave. The others, known by our science, are the quantum octave and the quark octave.*

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**5** According to Gurdjieff-Ouspensky, the cosmic stopinders of the universe are:

1. The Absolute
2. All Worlds
3. All Suns
4. The Sun
5. All Planets
6. Earth
7. Moon

### **The Table of Being Psyche Hydrogens**

According to Gurdjieff-Ouspensky, *The Table of Hydrogens or the Table of Being-Psyche Hydrogens* is as below:

<i>do</i>			
<i>ti</i>	H6	H1	
<i>la</i>			
<i>so</i>	H12	H6	H1
<i>fa</i>			
=	H24	H12	H6
<i>mi</i>			
<i>re</i>	H48	H24	H12
<i>do</i>			
<i>ti</i>	H96	H48	H24
<i>la</i>			
<i>so</i>	H192	H96	H48
<i>fa</i>			
=	H348	H192	H96
<i>mi</i>			
<i>re</i>	H768	H384	H192
<i>do</i>			
<i>ti</i>	H1536	H768	H384
<i>la</i>			

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<i>so</i>	H3072	H1536	H768
<i>fa</i>			
=	H6144	H3072	H1536
<i>mi</i>			
<i>re</i>	H12288	H6144	H3072

A being psyche hydrogen consists of a pairing of at least two particles, one should be in the nucleus and another in the orbit. The filling in the nucleus could be any nuclear particles from the *Do-microcosmos* and the filling in the orbit could be any orbital particles from the same *Do-microcosmos*. The special purpose of this Table of Being Psyche Hydrogens is to incorporate the intelligence of matter (life, consciousness, mind, psyche, God, values, souls, spirits, etc) into the picture, hopefully to cover certain realities which this science has never attempted to think or come forward a paradigm, and has thus provide a great opportunity for all kinds of fanciful wiseacrers of the psyche factor in the Cosmoses.

The final division of matter is a chemical entity we called *an atom*. Atoms are present everywhere in the universe without distinction of materiality of matter in the atoms found in the various levels of cosmic concentrations. An atom's inner octave is the octaves of elementary particles and their quantum dynamics. Classical scientific paradigm considers this atom of matter to be isotropic and homogeneous everywhere in the universe or the Great Ray of Creation. The range of elementary particles the scientists claimed consists of protons, neutrons, electrons, quarks, etc. They collect them from the earth, the sun and the cosmic radiation from every part of the Rays of Creation if they chance to fall on Earth as part of its creation activity.

The smallest atom, according to science, is the *hydrogen atom which is the basic block for all atoms of whatever size*. It arises out of the trialectics of a proton (positive) and an electron

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(negative), and the third factor is the neutron. In the world of hydrogen atoms, science discovers a few more elementary particles, and later on more of such elementary particles that come from earth and elsewhere in the universe. The subjective or psychic properties or psychic presence to these elementary particles could not be associated with the concept of matter and energy properly. This is known as the mind-matter or psyche-matter dualism. This dualism must be trialecticalized and octavized to pave way for a clearer understanding of the transition of the mind into the matter. A common denomination should be chosen to avoid philological contradiction. Gurdjieff and Ouspensky use *matter* as the basis for unification, introduce a law of three and a law of seven to show the passages of forces and the qualitative limits of each notes of changes in materiality from the finest (God) to the coarsest (dead matter). The elementary particles, the hydrogens, the atoms, the molecules, the compounds, the substances and the material body could not be chained to any psychic presence for each of these stopinders of matter. So science has to be satisfy with a study of matters stopinders based on trialectics and octaves without the 'soul'. Well. Something must be done to enrich this *Views of the Real World* in science. On the other hand, the Gurdjieff-Ouspenskian system has completed a system of combining the psyche and matter without this separation of the mind and the matter. If science has to make any thought headway, it would have to expand in the Gurdjieff-Ouspenskian direction with a new noumenal-phenomenal investigation tool.

Our material science is very 'geo-centered' that is constructed based on the observation of forms of matter existing on Earth. We collect our scientific data and build our scientific theories from this source. In view of the octave theory of Gurdjieff and Ouspensky regarding the materiality differences of matter at different cosmic concentrations with varying levels of psychic intelligence and conscious ability, one can conclude that our

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scientific knowledge is still limited to World 48 constraints. As no cosmic concentrations are independent from receiving and giving matters (particles) from and to other cosmic concentrations, the scientific discovery could still venture into areas of knowledge of other Worlds such as 'All Planets', our Sun, some Suns and our Moon. Our feeling, thinking and 'I' bodies are constructed from materials that do not come from Earth.

The idea that matter is isotropic and homogeneous in the sense of iso-homo materiality for all cosmic concentrations would be false, unless matter is a general term for a substrate for the whole universe without taking into consideration inner variation.

Changes in the psyche number of hydrogens would not affect the atomic weight of matter but it implies changes in the intelligence, the consciousness and the materiality of matter. The psyche number of hydrogen obeys the octave law.

The psyche intelligence of matter is dependent on the hydrogen factor as the hydrogen factor is the basic building block for all bigger atoms (as it is the smallest atom). The hydrogen atom stopinders upwards creating qualitatively different atoms constituting the different types of elements. The hydrogen receives its intelligent factor or psychic factor from the psychic factor in the elementary particles. The elementary octaves must contain the intelligent factor. The electron (of the elementary octaves) carries the greatest value of intelligence amongst most of the other particles. The intelligent factor of being-psyche is able to enter into all the elementary particles, hydrogens, atoms, molecules, compounds, substances and corporeal bodies.

The organic octave which consists of major elements such as 'C', 'O', 'N', 'H' and the halogens is a vital area of concern to psychistry. The DNA molecules (the second microcosmic

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stopinder) are of particular importance as they carry the most amount of intelligence.

**Classification of material motions based on the laws of octaves**

Do      Psychic Motion

Retardation

Ti      Light Motion

La      Electromagnetic Motion

So      Electric Motion

Fa      Heat Motion



quantum motion

Retardation

Mi      Sound Motion

Re      Mechanical Motion in Space

Do      Motionless Motion in Time