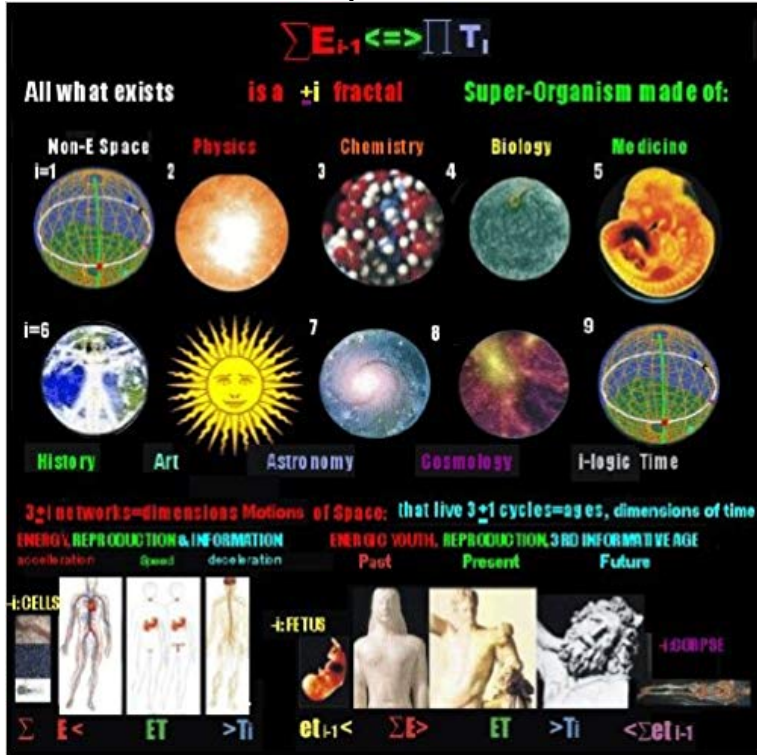


The Generator Equation of the Universe.



We call in Fractal Physics, the Metrics of the 5th Dimension, the Generator of the Universe since it generates the scales, topologies and forms of reality - a simple equation that combines the 2 inverse arrows of reality, energy & information. When we loose energy/entropy/motion we gain form/information. Systems combine both: bodies of energy and information heads. A logic combination of both is an action, exi, unit of the physical world. Creation is a logic fractal that reproduces information, 4-D, living forms- an impersonal God - a generator function of 2 inverses yang vs yin, ei. Each species, a complex puzzle of infinite fractal recombinations of 2 forms in motion, the line of energy/entropy, the cycle of in/form/ation. Each of us is a complex function of exi=st-ence generated by that equation. We are made of actions of energy and time, bodies and heads. All what you see are systems of energy (body or fields) and information (particles and heads) that gauge information, act with their energy upon reflecting, calculating that information in an stop and go game which is the essence of existence: moving and stopping EsTi, in a feed-back equation of states or poles of reality which resumes all its events. Because there is nothing more, we can derive the 4 invariances of the Universe from its generator equation. The new invariances that complete Einsteins model of the Universe (invariance of motion) are:- The invariance of topological forms of in/form/ation, shown in the existence of only 3 topologies in a 4-dimensional Universe, which correspond to the 3 forms of all systems, the energetic membrane or sphere, the toroidal body that exchanges energy and information with the hyperbolic, informative, central zero point of the system: E(membrane) I(point) We derive from the invariance of 2 states of reality, motion, form and its combined actions, exi:- The invariance of the 4 temporal

events or actions that combine energy and form and its time frequencies, which determine the causality and life-death cycles of all systems of the Universe, among them the invariance of 3 time ages of life and the parallel 3 states of matter in physical systems.- And the invariance of scale, first studied by Mandelbrot with his work on fractals, which is the origin of the laws of emergence as the geometric properties of the single systems of space-time emerge in the quantum scale, and the actions and complementarity laws of quantum systems emerge in all biological systems, also made of cyclical informative particles/heads and lineal, energetic body/fields; and finally the laws of sociological systems which evolve into bigger wholes guided by the arrow of eusocial evolution. The 4 invariances of the Universe, motion, form, time frequency and scale can be formalized with an equation, the Fractal Generator of the Universe, which maximizes them, under the restrictions of the mathematical and logic laws that describe each invariance. AND this is the ultimate meaning of the function of existence: $\sum E_{xi}=K$, each element represent an invariance, of scale, \sum , of energy-space, or information-form... and so on. Needless to say the study of that equation is a rich field hardly explored. Such fractal generator has 3 maximal points, which correspond in form to the only 3 topologies of a 4-dimensional Universe; and in time to the 3 ages or phases of all living beings and states of matter. Thus all stable systems will be a combination of the 3 topologies that maximize the fractal generator and all mutations and unstable particles will be incomplete sets of those 3 maximal points or vibrational modes creating around them. From a logical perspective, the Fractal Generator, its laws of invariance and its maximal points in space and time form an algorithm, which is constantly run by the Universe and generates all its living and non-living systems.

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