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## ETHER – Matter transitions in the universe

**Dénés JOÓ**

Architect-Urbanist, Systemic Evolutions and Pyramids Independent Researcher

THE WHOLE PERIODIC SYSTEM [1,10] begins with the ether-matter transition element ETHERON and the pre-elements GLUON and QUARK, before the HYDROGEN and HELIUM, and ends with the element No. 558, contrary to the element No. 118 in the – by the IUPAC – official recognized PERIODIC SYSTEM, which only the fourth step is, or middle note of the Big Cosmic Octave. In the classical work [2] there are determined the main characteristics of the ETHERON, as follow: mass, radius, cross section for both, COSMIC-, respectively NUCLEONIC ETHERONS, and total number, etheron density, free path, inter-etheronic distance, different from one another, respectively the number of etherons inside an ELECTRON. Inside the „pondero-vibratory” analysis [3] there are two kind energy-equivalences:  $E=mc^2$  and  $E=vh$ , gravific and vibratory mass or weight. Extending this method from the atomic-molecular resonance to the ethero-gluono-quark successive resonance, the complex resultant of this three-interactional quaternionic system [4], [5] will have a BIONIC character. Inside the conic-toroidal model [6] this is the spiral axis of the conic-toroidal vortex. So, the BIONIC AXIS of the CONIC-TOROIDAL UNIVERSE is in fact a LIFE-SPIRAL, in form of braid, the correspondent „particle” being the BION, in form of bubbles, with the interior imaginary component as hidden part of the total mass/energy of the Universe. In this context, the elementary particles are superior harmonics of the „fundamental tone” ETHERON. Based on the hypothesis that the GLUON, QUARK and BION are 2-, 3-, respectively 5-fold resonances of the ETHERON [4], [5], result their characteristic masses. The resonant transitions from the ETHER to MATTER [8] include chaotic phases too [7], with some mass-transformation in bounding energy [9]. In conformity with the mathematical numerical system, hyper-real, real, complex and hypercomplex (quaternionic, octonionic and sedenionic) materials exist. In other approach the ETHERONS are single helical strings in form of Fulleren-like nanotubes, evolving through successive unifications, resulting the superstrings in form of GLUONS as double helical-, QUARKS as triple helical-, and BIONS as quintuple helical ETHERON BRAIDS. In conclusion, the re-introduction of the ETHER and ETHERON in the Physical/Material World implies the introduction of the notion of COMPLEX MATERIALS, of which „particles” are the BIONS, with the real components in form of HIGGS-BOSONS, respectively in the bubbles/spheres included imaginary components as DARK MATTER or ENERGY, with IMAGINARY MASS.

### Recent Publications:

1. D. Joó: Sketch of the Cosmic Architecture (The Whole Periodic System), 2nd World Chem. Conf. Toronto 2016
2. I.-I. Popescu (1982): Ether and Etherons, A Possible Reappraisal of the Concept of Ether
3. A. Boncea, V. Sahleanu (1985): Number – Life – Resonance (RO)
4. D. Joó: Creation and Distribution of Matter in the Universe, Materials 2017 Congr. Rome
5. D. Joó: Life-Vision in Dürer’s Masterpiece „Melencolia I”, Biochemistry 2017 Conf. Dubai
6. D. Joó: A Conic-Toroidal Model of the Universe, Materials 2017 Conf. Berlin
7. D. Joó (1998): Golden Mean or/and Chaos? In: On the Eve of the 21st Century, Challenges and Responses
8. K. F. Kraft (1954): Ether and Matter
9. T. Tassi: aparadox.hupont.hu (2016)
10. D. Joó: denesjoo.wordpress.com (2016). Budapest, 21st March 2018.

### Biography

Dénés Joó, after the „Ion Mincu” University of Architecture and Urbanism in Bucharest, he studied Mathematics, Economy, Sociology in Cluj-Napoca-city, and Postgradual Settlement and Regional Planning in Bucharest, and parallel with all these Physics, Chemistry, Astronomy, Logic, Philosophy and other scientific disciplines without limits. Elaborating new mathematical prognosis models, he extended the Futures Research to the Systemic Evolutions Research, as a new synthesis in the science, extending it from the terrestrial to the cosmic evolution, from the micro- to the macro-world, including the pyramids research too.

denes.joo@gmail.com