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## Aetherometric Theory of Synchronicity (AToS)

### A new concept of energy and a new integral function for its forms

The fundamental aetherometric concept is the expanded function of energy. Energy is a five-dimensional event, capable of phase superimposition in multiples of five-dimensional events ('raising energy to the nth power'). With this new functional approach, the energy-event becomes a micromachine, a wave-synthesizer capable of fine-structure definition. Energy is not simply the potentiality of work, but work seen or unseen, useful or useless, converted or not. The continuous creation of Space across sequential instants of Time is the ontological work of energy, the evidence that a flux of energy has a power and performs sensible work. Space is, in this sense, the work of the perpetual flux of massfree energy, just as universal Time is at once its synchronous beat and its eternal duration. Energy flows in packets, in quantized units, whether Planckian or not. Energy flux is "molecularized" or particulate. Every energy unit (see Leibniz's monad), irrespective of physical nature, is a synthesis of a spatial volume flowing or 'beating' with a resonant simultaneity, the production of a difference being found at the core of the new concept of energy: energy is a synthesis of the different - particle and waves, Space and Time manifolds, conjugate series of physical objects, different constituents, different properties or qualia.

### Intrinsic simultaneity

At the core of every energy unit there is a structural simultaneity that keeps particle and wave solidary, and permits noninterpretable, exact spatiotemporal maps of events and physicochemical processes. This structural simultaneity is directly expressed by the specific synchronisms of the Time manifold constitutive of any given energy unit, whether massfree or massbound. Hence, at the antipodes of Relativity (itself an undue generalization of the relationism of all motion - also called exoreference or relative coordinatization of motion), Aetherometry uncovers the fundamental synchronism (and its variations as synchronicities) that gives consistency to all energy units, and proposes a method for endoreference or absolute coordinatization of motion and physical quantities. The simultaneity of a universal Time is not merely qualitative, as for Henri Bergson, but quantitative and intrinsic to energy units and processes: energy itself (and every one of its units in any form) 'is' able to time itself, or measure itself, with immanent metrics (endoreference) put into evidence by the fine-structure solutions to every energy form.

### Energy conservation and conversion

Energy constitutes a seamless spatiotemporal continuum because of the iterative property of each energy unit in Time. The conservation of energy is a consequence of this iterative property, of its diachronicity, and of its axiomatic application to the total energy of the universe as a finite quantity. When not conserved, energy units are converted. *Energy forms* may be created, conserved, destroyed, or converted. Not so energy: energy is neither created nor destroyed, only conserved or converted. To paraphrase Dr. Eugene Mallove's comment on aetherometric physics, the First Law can be succinctly stated as - the being of energy is 'Aethernal'.

### New concepts and functions for wave and particle synthesis

Each energy unit is a particulate synthesis of waves or wavefunctions. Every energy form or manifestation displays a specific particle and wave configuration, characteristic of the type of energy interaction (electromagnetic, gravitational, electrodynamic, etc). Aetherometry has identified exactly the intrinsic or hidden metrics of all energy interactions and of energy units or packets, whether massfree, massbound, or in some form associated with massbound particles (eg kinetons, photons, gravitons and antigravitons). These transformative metric relationships are the object of a new system of (micro)functional algebraic equations that open the boundaries of existing physico-mathematical theories to a new analysis of dynamic physical and biological processes. Morphology is no more separate from energy, from its processes and transformations, than topology may be mapped out while being divorced from geometry and metrics - that is, if science and mathematical language are to actually follow the internal dynamics of systems, instead of simply replacing them with static appearances and convoluted approximations.

Aetherometry has provided novel wave-synchronous and resonance-coherent, solidary particle-and- wave solutions for virtually all energy structures and interactions. Every energy flux is a flux of energy units, massbound or massfree. Each unit has the dimensions of energy, and coheres a particle function with a phase or external wave. It also establishes a synchronizing resonance between the group wave intrinsic to the particle and the external guide wave. The coupling of these two wave functions - that is intrinsic to every energy coupling between a particle and a field wave - is referred to as primary superimposition. Synchronism of energy flow is a property of the primary superimposition of waves, of the internal consistency of every energy unit. Basic endoreference systems are created by primary superimposition.

Wherever energy flows, particles, whether massbound or massfree, move in relative and absolute senses (molecular or quantum view of energy). And wherever particles move, resonant waves transmit them, propel them (subquantum view of energy). A particle is nothing but the undulatory transmission of a unit of linear momentum intrinsic to an energy flux.

Particles come in two main varieties - those that are massbound (particles of Matter) and those that are massfree. Whereas multiple particles of matter cannot simultaneously occupy the same abstract space, massfree particles can do so; massfree particles can superimpose with each other to form what are called phase energy structures, and they can also superimpose with particles of matter. The kinetic energy of a particle of matter (i.e. the energy of motion that is affected to it) is, in fact, massfree energy in a state of transient superimposition with the mass-energy of the particle being displaced. Aether lattices are phase energy structures, and mass-energy when considered together with its associated massfree graviton is also a phase energy structure. These structures have specific geometries, and thus there is finite volumetric structure to all manifestations of energy. Electrons and protons have toroidal structures; photons are globular; kinetons, gravitons and ambipolar charges constitute various helico-trochoidal structures.

Massbound particles have the property of inertia, and are monopolarly charged (neutrons are massbound charge composites and decay products only). All massbound particles obey Planck's law for the quantization of angular momentum (as a principle of action and in aetherometric fine-structure). And so do two other classes of massfree energy: photons (whether blackbody or ionizing) and 'kinetons'. Ambipolar charges, whether of the OR or DOR types, obey Planck's law with respect to their action, but not their fine-structure.

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## References

<http://www.aetherometry.com> Aetherometry, the Science of the Metrics of the Aether