

Abstract Submitted
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A Non Relativistic Dual Quaternional Unified Atomic and Astro Physics CLAUDE MASSOT, Retired — My non relativist hypothesis of a complex mass for de Broglies dual wave/particle, (1994, French Academie des Sciences), still unifies most incompatible relativistic and quantum concepts. Real inertial particles, move, pulled by a linked imaginary wave/mass, itself moving at the speed of light. The dual particle mass modulus dilation partly follows relativity, but remains finite at the speed of light. Time, itself, is dual and complex, linked to mass (there is no space/time). At high energy, I add spin and helicity by introducing quaternions. To unify sub-atomic and astro Physics I treat Michelsons result as photons carried by and with the earth gravitational field and I define gravity as an electrical residual force between the opposite fields of protons and electrons. This leads to a quantized (only slightly perturbed) solar system. Gravitational waves and gravitons can be astro-photons from orbital transitions of planets. I define the red shift not as a Doppler effect but as gravitational attrition of the pure imaginary mass of outgoing always-escaping redder photons. There could be no expansion of the Universe, no black holes but hypermassive dark stars, no dark matter, nor dark energy.

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