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The mass, energy, space and time systemic theory- MEST- The new space-time theory DAYONG CAO, Beijing Natural Providence Science & Technology Development Co., Ltd — The probability of displacement and period of wave are the space-time. The black hole and its dark planet (dark comet) is made from dark atom. The dark nucleus is made from the dark photon and the dark neutrino, and the dark muon is around it. The dark nucleus has a nuclear energy of the space-time; the black hole radiate the dark proton and the dark neutron like the dark wave (no accretion). We find the dark comet difficultly. But when it impact our earth, it will produce a special "nuclear explosion" which will be produce by the nuclear energy of the mass-energy of stone of earth and the nuclear energy of the space-time of the dark comet together. We can not find its reliquiae of the dark comet. But we can check the abundance of iridium and 'shocked' quartz in geological samples around the world. The paper suppose that the Chicxulub Asteroid was the dark comet who Impacted and triggered the mass extinction at the Cretaceous-Paleogene Boundary. (1) $S = P(r) = f^2$. According to the Benford's law, (2)$T = P(t) = ln(1 + \frac{1}{t}) = \nu$. Among it, S: the quantum space, f: the amplitude, r: the displacement, T: the quantum time, t: the period, ν: the frequence, P: the probability function. (3) $E'\psi = i\hbar\frac{\partial\psi}{\partial t}$. (4) $m'\psi = -i\hbar\frac{\partial\psi\partial t}{(\partial x)^2}$. (5) $E''\psi = m''\psi c'^2, (c'^2 = -\frac{(\partial x)^2}{(\partial t)^2})$. Among it, $E'\psi$: the energy of dark wave, $m'\psi$: the mass of dark wave, $E''\psi$: the nuclear energy of black hole, $m''\psi$: the mass of black hole, c': the velocity of dark wave, ψ: the Wave Functions.

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