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The mass, energy, space and time systemic theory- MEST DAY-ONG CAO, Beijing Natural Providence Science & Technology Development Co., Ltd — The solar system is mass-energy center, and the wave (space-time) and planet are around. Sun absorb the matter (mass-energy) and radiate the light (space-time). It's space-time has a space time structure. It has a positive curvature and a sphericalstructure. The dark hole system is the space-time center, and the dark mass-energy and dark planet (dark comet) are around. Dark hole absorb the light (space-time), and radiate the dark mass-energy (mass-energy). The dark mass-energy main make up of the negative proton and the negative neutron who can take negative density and negative pressure. The dark mass-energy has a dark mass-energy structure. It is a negative curvature and a inverse spherical structure. The general relativity equation, $R_{ik} - \frac{1}{2}g_{ik}R = -\kappa T_{ik}$. The left of the equation is the metric tensor of the space-time structure; the right of the equation is the energy-momentum tensor. The dark hole has the below equation, $R'_{i'k'} - \frac{1}{2}g'_{i'k'}R' = -\kappa'T'_{i'k'}$. The left of the equation is the metric tensor of the dark mass-energy structure; the right of the equation is the dark space-time (field) tensor. $(R_{ik} - \frac{1}{2}g_{ik}R) + (R'_{i'k'} - \frac{1}{2}g'_{i'k'}R') = -(\kappa T_{ik} + \kappa' T'_{i'k'}) = 0.$ The above equation show that the cosmological model is a balance system. The star system and the dark hole system are the uniform distribution. There is the transmutation and the interaction between the dark hole system and star system.

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