

Abstract Submitted  
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**Mass, Energy, Space And Time Systemic Theory-MEST-Star And Black Hole** DAYONG CAO, Beijing Natural Providence Science & Technology Development Co., Ltd — Things have their physical system of the mass, energy, space and time of themselves-MEST The spac-time is from the amplitude-frequency. Also them have different space-time and MEST of themselves, but them have the same formula of the physical laws-principle of relativity. There is the balance system of MEST. Also thing can leave off it's old balance system, it will go into a new balance system. The solar system have the mass-energy center and the space-time around. So there is the equation of planet (with a Round revolution orbit),  $\frac{1}{2}mv^2 + m'c^2 = -mgr = -G\frac{Mm}{r}$ . Among it,  $m'c^2$  is the energy of space-time of planet. And there are these equations:  $\Delta\frac{1}{2}mv^2 = \Delta m'c^2$ ,  $\frac{1}{2}mv^2 = -\frac{1}{2}mgr \rightarrow \frac{1}{2}mv^2 = m'c^2 \rightarrow mv^2 = -mgr \rightarrow ma = -mg$ . It is a energy balance system that is one kind of formula of the balance system of MEST. The black hold system have the space-time center and the dark mass-energy around. The black hole has not a big mass and energy. The light can not leave off it, because the back hole absorb the space-time (light). When a star burn out, it's mass-energy change into the space-time, so the star change into a big wave ball-photosphere, and go into the black hole. We suppose that there is the nuclear fusion of space-time of black hole, and the dark mass-energy can control the nuclear fusion (of sun). So we can make a new spacecraft with the wave energy driver.

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