

Abstract Submitted  
for the DAMOP08 Meeting of  
The American Physical Society

**The mass, energy, space and time system theory-MEST DAYONG CAO**, Beijing Natural Providence Science & Technology Development CO., LTD — Things have their own system of mass, energy, space and time of themself. (The MEST for short thereafter). Mass is density, energy is force, time is frequency, spac is amplitude square. In quantum mechanics, the quality of radiate wave mainly is quantum space-time while it's mass-energy is ancillary; The nature of the macro-substance is mainly mass-energy while space-time are ancillary. Mass-energy are like the earth center while space-time are like the heaven around. An Nuclear of an atom is like the earth center while the charge cloud of an atom(radiate wave) is like the heaven around. Macro is like the earth center while micro is like the heaven around. Physics system of The MEST of heaven and earth, which unites both macrophysics and microphysics. There are the transmutation between space-time and mass-energy. When they get a balance, they get the inertia and eigenvalue system. The inertia, eigenvalue and the transmutative balance system equation are being put forward. New mass-energy wave equation, space-time particle equation and new photoelectric conversion equation are being put forward, With anode dark current of hole, give a new explain to the photoelectric effect experiment;and get new mass-energy equation which equal the mass-energy relation of Einstein. It can be prove by orbit equations of nine planes and orbit equations of electron of H and He. Quantum space-time theory and speed of light theory are being put forward, and explain wave-particle duality and probability of wave, deduce the new uncertainty principle, uncertainty and probability can not be divided. MEST equation of star and black hole are being put forward.

Dayong Cao  
Beijing Natural Providence Science & Technology Development CO., LTD  
P.O. Box 902, Ext.111, Beijing, China 100083

Date submitted: 04 Apr 2008

Electronic form version 1.4