Abstract Submitted
for the APR12 Meeting of
The American Physical Society

MEST-The universe has not the time arrowhead and space expanding DAYONG CAO, Beijing Natural Providence Science & Technology Development Co., Ltd — The space-time is the orbit of motion. So the displacement and period of the motion are the space-time. In the microcosm, the wave is the orbit of the motion. Because the wave has the probability, so the probability of the displacement and period of wave are the quantum space-time. (1)$S = P(r) = P(\lambda) = f^2$ 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, λ: the wavelength, ν: the frequence, P(x): the probability function. When the wave trip in the universe, its quantum space-time change to universal space-time, it would lost its space-time and has a constant of the rate. (3)$V \approx H_0 D$. (4)$\frac{\Delta\lambda}{\lambda_0} \approx \frac{V}{c}$. (5)$H_0 \approx (\frac{\lambda}{D})\Delta\nu$. Among it, V: the velocity of the star, H_0: Hubble constant, ν: the frequence, λ: the wavelength, D: the displacement, $\frac{\lambda}{D}$: the rate of the translation between two system. Everything has its own space-time of its motion. If there is a relationship between two motions, there is a relationship between their space-time; If there is not a relationship between two motions, there is not a relationship between their space-time.

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Date submitted: 22 Feb 2012 Electronic form version 1.4