Abstract Submitted for the APR21 Meeting of The American Physical Society

Continuous Variation of the Time's Rate for Every Location and Every Object HASSAN GHOLIBEIGIAN, Amirkabir Univ of Tech (Tehran Polyhypothesis tech) In pulsating mantle (i.e. https://ui.adsabs.harvard.edu/abs/2012AGUFMPA23A1960G/abstract), two phenomena; "inner core dislocation" and "outer core bulge" have appeared inside the earth due to unbalanced gravitational attraction of the Sun and the Moon. Consequently, the mantle is under diurnal cyclic pulsating load by them. In other words, the inner core's center and axis do not crossed or overlapped on the earth's center and axis, and the distance between these two centers vary in magnitude and direction constantly. Therefore, the gravitational fields are continuously varying on the earth's surface for every location and every object at the rest or movement. On the other hand, in special relativity, time's rate varies during the changes of the height (i.e. the gravitational force) for an object. For example, by increasing the height (i.e. by decreasing gravitational force) of an atomic clock, time's rate will increase as well and vice versa. Consequently, the time's rate continuously varies in every location and for every object at rest or movement. This generalization of special relativity shows the interaction between the special and general relativity theories of Einstein.

> Hassan Gholibeigian Amirkabir Univ of Tech (Tehran Polytech)

Date submitted: 08 Jan 2021

Electronic form version 1.4