Abstract Submitted
for the MAR14 Meeting of
The American Physical Society

Multi-Rocket Thought Experiment FLORENTIN SMARANDACHE, University of New Mexico — We consider $n \geq 2$ identical rockets: $R_1, R_2, \ldots, R_n$. Each of them moving at constant different velocities respectively $v_1, v_2, \ldots, v_n$ on parallel directions in the same sense. In each rocket there is a light clock, the observer on earth also has a light clock. All $n+1$ light clocks are identical and synchronized. The proper time $\Delta t'$ in each rocket is the same.

1. If we consider the observer on earth and the first rocket R_1, then the non-proper time Δt of the observer on earth is dilated with the factor $D(v_1)$:

or $\Delta t = \Delta t' D(v_1)$

1. But if we consider the observer on earth and the second rocket R_2, then the non-proper time Δt of the observer on earth is dilated with a different factor $D(v_2)$:

or $\Delta t = \Delta t' D(v_2)$ And so on. Therefore simultaneously Δt is dilated with different factors $D(v_1), D(v_2), \ldots, D(v_n)$, which is a multiple contradiction.

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Date submitted: 20 Sep 2013 Electronic form version 1.4