

Abstract Submitted
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Noninertial Multirelativity FLORENTIN SMARANDACHE, University of New Mexico, Gallup Campus — We firstly propose an extension of Einstein's thought experiment with atomic clocks of the Special Theory of Relativity: considering non-constant accelerations and arbitrary $3D$ -curves for both a particle's speed and trajectory inside the rocket and respectively the rocket's speed and trajectory. And secondly we propose as research multiple reference frames F_1, F_2, \dots, F_n moving on respectively arbitrary $3D$ -curves C_1, C_2, \dots, C_n with respectively arbitrary non-constant accelerations a_1, a_2, \dots, a_n and respectively initial velocities v_1, v_2, \dots, v_n . The reference frame F_i is moving with a nonconstant acceleration a_i and initial velocity v_i on a $3D$ -curve C_i with respect to another reference frame F_{i+1} (where $1 \leq i \leq n-1$).

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