

Abstract Submitted  
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**Time Rate Gradient Effects and Negative Mass** EDMOND MIKSCH<sup>1</sup> — The Harvard tower Experiment and tests with accurate atomic clocks show that a clock at a high elevation indicates more elapsed time than a clock at a low elevation, both clocks properly measuring time at their locations. This fact mandates that Newton's first law of motion be rewritten to cite impulse balance rather than force balance. Time rate gradient effects explain how the weight of a precisely vertical and precisely uniform electric field or a precisely vertical and precisely uniform magnetic field is supported in a precisely unidirectional gravitational field. Time rate gradient effects also explain how the weight of a unidirectional gravitational field is reacted. It is confirmed that the mass density of the gravitational field is negative. <http://www.TimeRateGradient.com>; <http://www.Negative-Mass.com>; <http://www.EinsteinsElevator.com>

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