

Propellantless Propulsion by Electromagnetic Inertia Manipulation: Theory and Experiment

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Abstract. One of the challenges to create the Space Drive being to discover a self-contained means of propulsion that requires no propellant, it was already shown that a solution to the problem does exist, provided the system is endowed with tensor mass properties. It is found that under the assumption of Minkowski's Energy-Momentum tensor being the right one (Abraham-Minkowski controversy), the electromagnetic field can modify the inertial properties of the generating device... given suitable charge and current distributions. An experiment to settle the question is then proposed, which consists of mounting the device as a seismic mass atop a mechanical suspension. By supplying a periodic voltage to the coils at a frequency close to the fundamental frequency of the seismic suspension, the expected mechanical effect from inertia variation would cause the fixture to resonate, adding up to the microcosmic noise induced vibration. Two series of tests were conducted during the period 1993 - 1997; in practically all cases, the results consistently point to a mechanical vibration induced by matter-electromagnetic field momentum exchange, as predicted by Minkowski's formulation, after all other sources of vibration were taken into account, or removed when possible.

INTRODUCTION

Human interstellar exploration may not be possible without the discovery of a self-contained means of propulsion that requires no propellant (Millis, 1997). This formally translates into the problem of achieving "jet-less" propulsion of spacecrafts that can then be seen as closed systems, i.e., without external assistance. As already shown (Brito, 1998), a mass tensor is found in connection with the closed system consisting of a rocket driven spaceship and its propellant mass, provided a "solidification" point other than the system center of mass is considered in a relativistic covariant formulation. Accordingly, an alternative propulsion principle, named the Covariant Propulsion Principle (C.P.P.), has been derived from this tensor mass approach, being obviously valid at sub-relativistic velocities and not strictly restricted to the rocket propulsion concept. The new principle reads: A spaceship undergoes a propulsion effect when the whole system mass 4-ellipsoid warps.

Thus a formal solution to the problem exists, provided the system is endowed with tensor mass properties. A further analysis of these properties shows that the propulsion effect is to be related to the deviatoric part of the tensor, which exhibits the particularity of producing a non-vanishing linear momentum in the spaceship comoving Lorentzian frame. This situation is reminiscent of the concept of static electromagnetic (EM) field momentum which can develop in the rest frame of a physical arrangement of electric and magnetic sources including polarizable media, as depicted in Figure 1. Different theoretical results are possible depending whether Planck's principle of inertia of energy is satisfied or not in the relationship between the Poynting vector (energy flow density) and the electromagnetic momentum density (Brevik, 1979). The different determinations are based either on the Planck's principle of inertia of the energy, as being valid within polarizable media, too, or upon a generalization of the Jones and Richards' experimental results about radiation fields within the same media (Joyce, 1975). They are therefore related to the group velocity of electromagnetic waves propagation: that for vacuum in one case, that for matter in the other case, respectively.

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