



The Neutrino Converted Christmas Tree Light-Sail Smorgasbord. Notes On Novel Light-Sail Propulsion Methods. Volume 20.

James M Essig

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A really strange concept for enhancing starship propulsion velocities and Lorentz factors would involve some ad-hoc mechanism to convert all material components of a starship including crew members bodies to neutrinos relative to the background reference frame through which the spacecraft travel. Since the ratio of the anticipated invariant mass of neutrinos is on average billions of times less than that of protons and neutrons and millions of times less than that of the electron, somehow converting a spacecraft to neutrinoium with respect to the background would automatically result in an increase in spacecraft Lorentz factors on the order of a multiplicative factor of 1 million to 10 billion or more. An important step here would include selective suppression of the neutrino conversion mechanism so that atomic and molecular components do not experience relative runaway velocities or gamma factors. Otherwise, the difference in particular Lorentz factors would likely lead to a shredding of the spacecraft into atomic and sub-atomic debris. Perhaps a field effect mechanism can cover the spacecraft volume at the levels of resolution of between one nanometer to one femtometer or less. Ideally, the mechanism would have a limit of resolution in space and time equal to the Planck Length and Planck Time scales. Another mechanism would include complete conversion of the spacecraft and its contents to neutrino material which done as previously mentioned is referred to as "neutrinoium". For the latter scenario, a mechanism would be required under conditions where the spacecraft would retain its modal identity of interaction with the background while preserving the personal identity of the crew members bodies and personalities. Another mechanism would include a hybrid of relative neutrino conversion and partial conversion of the spacecraft and crew to actual neutrino material. An interesting scenario would involve entanglement of all spacecraft molecular, atomic, and sub-atomic constituents to a relative neutrino state, actual neutrinoium, and/or a combination of the former two mechanisms. Such entanglement may provide a mechanism by which the signal and state distribution of any one or combination of the three subject methods over the entire volume of the spacecraft can be adjusted at the speed of light in the spacecraft reference frame. A Godsend would include the existence of hidden quantum variables which would provide a deeper mechanism to manipulate the spacecraft wave-functions to enable the subject conversions. The following operator will be inserted into all expressions of linear power terms by implication but merely actually inserted into almost all such expressions for brevity and ease of editing this series of books. Moreover, the operator has values which are context specific and thus may take on and in fact do take on different values in different contexts but within the same overall two formulas presented in this series. The value of the operator for instance in expressions for black body background radiation intakes scales as a function of the fourth power of gamma otherwise provided. In some limited cases, the operator represents two or more instantiations of the mechanism. The values of velocity, and gamma, denoted as such in the two lengthy formulas as well as the fractional velocity of light are values as would be without the neutrino-conversion based mechanisms. The operator is a multiplicative factor and dimension-less and is now presented. $\{f[(\text{Cont. Spec.})(\text{Neutrino con. of SC relative to the background}),(\text{Neutrino con. of actual SC}),(\text{Neutrino con. of SC relative to the background \& Neutrino con. of actual SC}),(\text{Field effect and/or Entanglement mechanism})\}$. To see more of the details, consider purchasing this series of books.

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