

43rd SYMPOSIUM ON THE SEARCH FOR EXTRATERRESTRIAL INTELLIGENCE (SETI) – The
Next Steps (A4)
SETI 2: SETI and Society (2)

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ADVANCED TRANSPORTATION SYSTEMS AND THEIR RELATION TO UNEXPLAINED
SIGNALS ON EARTH

Abstract

This paper describes research into emission signals from different potential advanced propulsion and transportation systems and the likelihood of their detection on Earth in relation to the detection of the famous “Wow-signal” and other candidates from the 37 signals detected by P. Horowitz and C. Sagan [P.Horowitz et al., 1993]. The methodology used was to compare the frequencies and locations of the detected signals with the emission spectrums of the proposed artifacts. The most likely sources for the “Wow-signal” were found to be plasma, warp field and magnetic sail systems, which are described in more detail. In addition to transportation systems, different astrophysical bodies that could also have been the source of the signals were studied and a hypothetical astrophysical body capable of emitting radiation in such a way that could lead to a signal studied has been proposed. Calculations, based on Lorentz transformations, were also made in order to investigate the possibility that a small but notable portion of dark matter could originate from the relativistic mass of extra-terrestrial artifacts moving at relativistic speed. The results of this indicate that the relativistic mass of such artifacts would not account for any notable percentage of dark matter.