

Quantum SETI

Laurance R. Doyle

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Abstract

When thinking of possible advanced extraterrestrial civilizations one might hypothesize that they might apply the more advanced considerations of modern physics such as teleportation of information, photon angular momentum, and other aspects of recent progress in quantum information. It may be possible, using a variation on the Wheeler cosmic-scale double-slit experiment to obtain constraints on “observers” in the Galaxy using some of these techniques. We will discuss the background for such possible applications of quantum effects to SETI and speculate about the development of such an approach for future searches.