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THE UPGRADED ALLEN TELESCOPE ARRAY: A DEDICATED RADIO SETI FACILITY

Abstract

Radio SETI stands out as a highly promising technique for the identification of extraterrestrial technology. Recent enhancements to the Allen Telescope Array include the integration of sensitive feeds, a cutting-edge real-time correlator, and a beamformer, collectively enabling an advanced search capability. The telescope is currently engaged in SETI endeavors utilizing the innovative "SETI ellipsoid" technique, which is the search for coordinated ET beacons responding to an astrophysical event like a bright supernova. The investigation extends to observing multi-planetary systems during predicted planet-planet occultations, specifically targeting leakage radiation that may emanate from hypothetical interplanetary communication. Moreover, the ATA is also actively scanning nearby stars for potential indicators.

This presentation will delve into the specifics of these endeavors and their significance in the broader context of our quest for finding extraterrestrial intelligence.