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THE BREAKTHROUGH LISTEN SEARCH FOR EXTRATERRESTRIAL TECHNOLOGIES

Abstract

We will report on the status of, and latest results from, the Breakthrough Listen search for advanced life beyond the Earth. Breakthrough Listen currently employs two radio telescopes (the Green Bank Telescope, Green Bank, WV, USA and the Parkes Telescope, NSW, Australia) and one optical telescope (the Automated Planet Finder, Lick Observatory, CA, USA) to conduct searches of nearby stars, nearby galaxies, our own galactic plane and exotic objects (e.g. KIC 8462852) for evidence of advanced life beyond the Earth. Future extensions to the program may include all-sky searches at radio and optical wavelengths and commensal programs on wide-field array telescopes (e.g. MeerKAT).