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The Next Steps (A4)
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BREAKTHROUGH LISTEN – A NEW SEARCH FOR LIFE IN THE UNIVERSE

Abstract

On July 20, 2015 Yuri Milner and Stephen Hawking announced a new set of scientific initiatives – a SETI search called Breakthrough Listen and a contest to devise potential messages in response to a detection entitled Breakthrough Message. These are the first of several privately-funded Breakthrough Initiatives, designed to answer the fundamental science questions surrounding the origin, extent and nature of life in the universe. The initiatives are managed by the Breakthrough Prize Foundation. With Breakthrough Listen, Radio SETI observations have begun at the Green Bank Radio Telescope (GBT) and optical SETI at the Lick Observatory Automated Planet Finder (APF). Observations will soon commence at the CSIRO Parkes Radio Telescope. Other SETI instruments and observations are under consideration. In addition, several other initiatives are under development including an expanded search for life in the universe.