

Title: The Berkeley SETI Program: SETI@home, SERENDIP, SEVENDIP, SPOCK and Astropulse

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Abstract: We review the status of several ongoing radio and optical SETI programs at the University of California, Berkeley, and present results from our recent follow up observations at Arecibo observatory. The Berkeley SETI programs search for wide variety of signal types and span a large range of time scales: SEVENDIP searches for nS time scale pulses at visible wavelengths. Astropulse searches for dispersed  $\mu$ S time scale radio pulses from extraterrestrial civilizations, pulsars, or evaporating primordial black holes. SETI@home searches for radio signals with time scales ranging from mS to seconds. SERENDIP and SPOCK search for continuous narrow band signals in the radio and optical bands respectively.