

## **IR, Visible and Radio SETI with help from Five Million Volunteers**

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We review six radio and optical SETI programs at Berkeley. These SETI program search for a wide variety of signal types and span a large range of time scales:

The new SETI@home II project uses Arecibo's multibeam receiver to carry out a sensitive commensal sky survey. SETI@home II searches for radio signals with time scales ranging from mS to seconds.

SETI@home participants have contributed three million years of CPU time to date; These volunteers currently average 200 Teraflops - making SETI@home Earth's most powerful supercomputer, distributed over 226 countries.

SEVENDIP searches for nS time scale pulses at visible wavelengths. 10,000 stars, 100 galaxies, and sections of the galactic plane have been surveyed.

The Astropulse Arecibo sky survey searches for dispersed uS time scale radio pulses from extraterrestrial civilizations, pulsars, or evaporating primordial black holes.

SERENDIP and SPOCK search for continuous narrow band signals in the radio and optical bands respectively.

DYSON searches for infrared excesses, perhaps from advanced civilizations that utilize considerable energy and radiate waste heat.