

Technical Page

Proposal Type: Regular
 General Category: Pulsars
 Observation Category: Galactic
 Total Time Requested: 40 Hours
 Minimum Useful Time: 2 hours

Proposal Title: Reinvestigation of Unidentified Sources of Dispersed Pulses Found with Astropulse

ABSTRACT:

The Astropulse project, a follow-on to the SETI@home distributed computing project, uses the same dataset as SETI@home. But whereas SETI@home searches for narrow band signals of long time duration, Astropulse searches for short duration (us) pulses that have been dispersed by the interstellar medium. Possible sources of such pulses include giant pulses from pulsars or microscopic black holes evaporating due to Hawking radiation. These observations could also reveal the existence of new classes of pulse emitting compact objects. Or, more speculatively, an extraterrestrial civilization might use pulsed radio emissions as a beacon. We've identified 114 possible sources of such emission and would like to confirm their existence.

Name	Institution	E-mail	Phone	Student
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Remote Observing Request

- Observer will travel to AO
- Remote Observing
- In Absentia (instructions to operator)

Instrument Setup

ALFA

Atmospheric Observation Instruments:

Description of Observer Equipment: SETI@home data recorder

Special Equipment or setup: We also would like to use the WAPPS and the Mock spectrometer in wide band mode.

RFI Considerations

Frequency Ranges Planned

1150-1730