

Special Equipment or setup: We are requesting observations with the L-wide/PUPPI and/or ALFA/Mock Spectrometer receivers and backends. We are searching for pulsars in Fermi Large Area Telescope (LAT) sources. We will use the Fermi LAT internal 4FGL point source catalog to obtain updated positions and positional uncertainties for all our targets prior to beginning our observations. (These updated positions will be available within 1 month of submitting this proposal.) The 4FGL position uncertainties are smaller than or of order the same size as the L-band beamwidth. If the 4FGL position error ellipses are contained by the beam, then we will use one pointing with the L-wide/PUPPI system. If the error ellipse is larger, then we will use three pointings with the ALFA/Mock system, with each pointing offset in position such that the full error ellipse is covered. In a given observing session, we will use either the L-wide/PUPPI or the ALFA/Mock setup, in order to not spend time switching receivers and backends during the session. We will decide which receiver to use prior to beginning the observation. Because all our sources are in the same part of the sky, we will observe the sources that are best suited for the given receiver/backend setup during the given session.

RFI Considerations

Frequency Ranges Planned

1225 - 1525

1150 - 1730

This proposal requires coordination with Punta Salinas radar within the band 1222-1381 MHz..

This proposal requires coordination with GPS L3 at 1381 MHz.