

Abstract Submitted
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A 350-MHz Green Bank Telescope Survey of Unassociated Fermi LAT Sources PETER GENTILE, MAURA MCLAUGHLIN, West Virginia Univ, PRIYADARSHINI BANGALE, Max-Planck-Institut fur Physik, BHASWATI BHATTACHARYYA, Jodrell Bank Centre for Astrophysics, FERNANDO CAMILO, Columbia Astrophysics Laboratory, ISMAEL COGNARD, Station de radioastronomie de Nancay, MEGAN DECEASAR, University of Wisconsin-Milwaukee,, ELIZABETH FERRARA, NASA Goddard Space Flight Center, JASON HESSELS, ASTRON, TYREL JOHNSON, George Mason University, MATTHEW KERR, CSIRO Astronomy and Space Sciences, MICHAEL WOLFF, SCOTT RANSOM, National Radio Astronomy Observatory, PAUL RAY, Naval Research Laboratory, MALLORY ROBERTS, New York University Abu Dhabi, JAYANTA ROY, Jodrell Bank Centre for Astrophysics, SIRAPRAPA SANPA-ARSA, National Radio Astronomy Observatory, PULSAR SEARCH COLLABORATORY COLLABORATION — We have searched for radio pulsations in 49 Large Area Telescope γ -ray source error ellipses using the Green Bank Telescope at a radio frequency of 350 MHz. We detected 14 millisecond pulsars (MSPs) in blind searches of the data. Four of these had already been discovered in other surveys. An additional four MSPs discovered in a subsequent radio survey at 820 MHz were detected by folding our survey data at the known periods and dispersion measures. This survey, along with other similar surveys, suggests that the majority of Galactic γ -ray sources at high Galactic latitudes are either MSPs or relatively nearby non-recycled pulsars. It also confirms that in the past there had been a strong observational bias against finding short orbital period MSP systems and a bias in favor of finding isolated MSPs.

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