## Fermi-LAT Search for Pulsar Wind Nebulae Associated With High- $\dot{E}$ $\gamma\text{-Quiet Pulsars}$

Introduction

4	• Pulsar Physics
5	• PWNe (high energy IC emission)
6	• PWNe detected at GeV energies
7	- 2PC Off-peak PWNe search
8	- TeVCat PWNe search
9	• $\gamma$ -quiet pulsars
10	• Search for new pulsars
11	(Nolan et al. 2012).
12	2. Analysis Method
13	2.1. Pulsar Selection Criteria
14	2.2. LAT Data Preparation
15	Analysis results
16	3. Discussion
17	REFERENCES
18	Nolan, P. L., et al. 2012, ApJS, 199, 31

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This preprint was prepared with the AAS LATEX macros v5.2.

A. notes

- 20 Benefits:
- 1. Improved time range (XXX months vs XXX months in 2PC)
- 2. Improved uppper limit from likelihood test.
- 3. Better analysis method (search for extended sources, could be more sensitive?) Look for hard-index sources (unlike 2PC).
- 4. For example, Lande et al 2012 discovered Gamma-ray emission from HESS J1616-508
  which is associated with PSR J1617-5055.
- 5. Note: Table 3 and 4 get upper limits assuming cutoff spectrum, not suitable for PWNe searches. For describing of 2PC flux upper limits, see https://confluence.slac.stanford.edu/x/U