1	PWNCAT2
2	Lots of people
3	ABSTRACT
4	Abstract goes here
5	Subject headings: Catalogs; Fermi Gamma-ray Space Telescope; Gamma rays: observations; pulsar wind nebula
7	Figures are in color
8	1. Introduction
9	The introduction goes here
10	Primary motivations for improved analysis
11	• More data (3 years vs 18 months)
12	• Many new GeV pulsars
13	• Going to higher energies thanks to improved IRFs.
14	• Better spatial/morphological analysis due to new pointlike code.
15	2. LAT Description and Observations
16	Description goes here
17	3. Timing Analysis

Timing analysis goes here...

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19		4. Off-peak Phase Selection
20	Off-peak goes here	
21	5.	Analysis of the Fermi-LAT data
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Table 1. All Energy spectral fit for the 52 LAT-detected Pulsars

PSR	TS	$F_{0.1-316}$ $(10^{-9} \text{ph cm}^{-2} \text{s}^{-1})$	Γ
		(10 °pn cm - s 1)	
J0007+7303	55.8	49.25 ± 49.24	2.75 ± 1.45
J0030+0451	13.8	< 7.95	
J0034-0534	32.6	15.30 ± 5.18	2.38 ± 0.21
J0205+6449	19.2	< 13.15	
J0218+4232	7.4	< 13.34	
J0248+6021	3.5	< 10.97	
J0357 + 3205	0.0	< 2.85	
J0534+2200	5814.5	456.08 ± 17.22	2.12 ± 0.02
J0613-0200	0.0	< 3.49	
J0631+1036	12.4	< 20.33	
J0633 + 0632	4.4	< 11.27	
J0633+1746	4816.5	925.99 ± 24.42	2.29 ± 0.02
J0659+1414	0.0	< 1.77	
J0742-2822	6.9	< 8.40	
J0751+1807	7.4	< 6.88	
J0835-4510	305.9	285.76 ± 22.79	2.55 ± 0.06
J1023-5746	16.4	< 30.44	
J1028-5819	0.0	< 12.79	
J1044-5737	0.0	< 7.90	
J1048-5832	0.0	< 8.81	
J1057-5226	0.0	None	
J1413-6205	0.7	< 2.08	
J1418-6058	4.7	< 7.50	
J1420-6048	0.0	< 15.33	
J1429-5911	0.0	< 2.50	
J1459-6053	0.0	< 1.31	
J1509-5850	0.0	< 2.20	
J1614-2230	0.0	< 3.15	
J1709-4429	0.0	< 5.96	
J1709-4429 J1718-3825	0.0	< 4.61	
J1716-3625 J1732-3131	0.0	< 1.89	
J1732-3131 J1741-2054	0.0	< 5.74	
J1741-2034 J1744-1134			
	0.0	< 7.37	• • •
J1747-2958	0.0	< 12.97	• • •
J1809-2332	0.0	< 12.43	• • •
J1813-1246	0.0	< 22.65	• • •
J1826-1256	0.2	< 21.07	• • •
J1836+5925	0.0	< 14.63	• • •
J1846+0919	0.0	< 1.85	
J1907+0602	0.0	< 1.71	
J1952+3252	0.0	< 1.05	• • •
J1954+2836	0.0	< 1.86	• • •
J1957+5033	0.0	None	• • •
J1958+2846	0.0	< 2.17	• • •
J2021 + 3651	0.0	< 5.90	• • •

Table 1—Continued

PSR	TS	$F_{0.1-316}$ $(10^{-9} \text{ph cm}^{-2} \text{s}^{-1})$	Γ
J2021+4026	8.2	< 118.88	
J2032+4127	0.5	< 14.55	
J2043+2740	0.1	< 2.22	
J2055+2539	0.0	< 2.93	
J2124-3358	4.7	< 5.65	
J2229+6114	0.0	< 3.78	
J2238+5903	0.0	< 3.79	

Table 2. Energy bin spectral fit for the 52 LAT-detected Pulsars

PSR	$TS_{0.1-1}$	$F_{0.1-1}$ $(10^{-9} \text{ph cm}^{-2} \text{s}^{-1})$	TS_{1-10}	F_{1-10} $(10^{-9} \text{ph cm}^{-2} \text{s}^{-1})$	TS_{10-316}	F_{10-316} $(10^{-9} \text{ph cm}^{-2} \text{s}^{-1})$
J0007+7303	41.0	27.80 ± 4.69	13.8	< 1.30	1.1	< 0.18
J0030+0451	14.4	< 16.69	4.0	< 0.57	-0.0	< 0.12
J0034-0534	16.0	< 16.72	19.9	< 1.07	-0.0	< 0.10
J0205+6449	0.7	< 16.87	5.3	< 1.24	11.8	< 0.29
J0218+4232	17.6	< 39.04	0.0	< 0.74	-0.0	< 0.20
J0248+6021	6.2	< 35.29	0.2	< 0.86	0.9	< 0.19
J0357 + 3205	-0.0	< 5.95	-0.0	< 0.39	-0.0	< 0.09
J0534+2200	2234.6	388.54 ± 10.67	2647.3	28.41 ± 1.14	1581.1	5.42 ± 0.43
J0613-0200	0.2	< 10.61	-0.0	< 0.42	-0.0	< 0.10
J0631+1036	7.6	< 37.83	3.2	< 1.72	3.7	< 0.29
J0633 + 0632	0.1	< 17.85	1.3	< 1.30	1.0	< 0.23
J0633+1746	4203.6	808.77 ± 18.44	1408.6	41.25 ± 2.12	-0.0	< 0.31
J0659+1414	-0.0	< 5.15	-0.0	< 0.23	-0.0	< 0.07
J0742-2822	8.0	< 21.93	0.6	< 0.63	2.6	< 0.13
J0751+1807	0.1	< 6.64	11.7	< 1.04	-0.0	< 0.09
J0835-4510	322.5	213.83 ± 13.41	62.9	6.62 ± 1.09	0.0	< 0.34
J1023-5746	0.0	< 26.83	3.2	< 2.62	18.9	< 0.73
J1028-5819	0.2	< 31.93	-0.0	< 1.32	0.1	< 0.34
J1044-5737	-0.0	< 18.90	0.0	< 1.00	-0.0	< 0.17
J1048-5832	-0.0	< 21.14	0.1	< 1.20	-0.0	< 0.17
J1057-5226	-0.0	< 0.76	-0.0	< 0.09	-0.0	< 0.11
J1413-6205	-0.0	< 6.97	-0.0	< 0.23	0.8	< 0.22
J1418-6058	-0.0	< 15.50	-0.0	< 0.76	2.6	< 0.45
J1420-6048	0.0	< 30.53	-0.0	< 1.03	6.3	< 0.44
J1429-5911	-0.0	< 6.41	-0.0	< 0.35	0.0	< 0.18
J1459-6053	-0.0	< 3.04	-0.0	< 0.19	-0.0	< 0.21
J1509-5850	-0.0	< 7.16	-0.0	< 0.33	-0.0	< 0.13
J1614-2230	-0.0	< 6.98	-0.0	< 0.56	-0.0	< 0.18
J1709-4429	-0.0	< 13.18	0.1	< 1.06	-0.0	< 0.12
J1718-3825	-0.0	< 17.07	-0.0	< 0.52	0.1	< 0.18
J1732-3131	-0.0	< 6.02	-0.0	< 0.25	-0.0	< 0.20
J1741-2054	-0.0	< 14.48	0.0	< 0.71	0.1	< 0.13
J1744-1134	-0.0	< 16.20	0.2	< 1.23	-0.0	< 0.17
J1747-2958	0.1	< 41.60	-0.0	< 2.20	-0.0	< 0.18
J1809-2332	-0.0	< 23.09	1.6	< 1.70	0.2	< 0.18
J1813-1246	0.0	< 53.08	0.1	< 3.45	-0.0	< 0.41
J1826-1256	-0.0	< 32.74	1.1	< 3.29	-0.0	< 0.35
J1836+5925	0.0	< 26.61	0.0	< 3.52	-0.0	< 0.22
J1846+0919	-0.0	< 6.73	-0.0	< 0.25	-0.0	< 0.14
J1907+0602	-0.0	< 4.90	-0.0	< 0.26	-0.0	< 0.17
J1952+3252	-0.0	< 2.26	-0.0	< 0.18	-0.0	< 0.13
J1954+2836	-0.0	< 6.57	-0.0	< 0.25	-0.0	< 0.13
J1957+5033	-0.0	< 1.57	-0.0	< 0.15	0.2	< 0.10
J1958+2846	-0.0	< 6.63	-0.0	< 0.32	-0.0	< 0.12
J2021+3651	-0.0	< 25.10	-0.0	< 0.95	-0.0	< 0.13

7. Discussion

The discussion goes here...

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Table 2—Continued

PSR	$TS_{0.1-1}$	$F_{0.1-1}$ $(10^{-9} \text{ph cm}^{-2} \text{s}^{-1})$	TS_{1-10}	F_{1-10} $(10^{-9} \text{ph cm}^{-2} \text{s}^{-1})$	TS_{10-316}	F_{10-316} $(10^{-9} \mathrm{ph}\mathrm{cm}^{-2}\mathrm{s}^{-1})$
J2021+4026	21.1	< 148.99	15.4	< 11.58	9.2	< 1.11
J2032+4127	0.5	< 25.13	0.7	< 1.49	2.6	< 0.24
J2043+2740	-0.0	< 4.63	0.1	< 0.31	-0.0	< 0.10
J2055+2539	0.1	< 9.10	-0.0	< 0.41	-0.0	< 0.07
J2124-3358	-0.0	< 5.75	5.5	< 0.88	2.2	< 0.10
J2229+6114	-0.0	< 10.75	-0.0	< 0.59	-0.0	< 0.08
J2238+5903	-0.0	< 10.11	-0.0	< 0.54	-0.0	< 0.07

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http://healpix.jpl.nasa.gov/

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