2	Lots of people	
3	ABSTRACT	
4	Abstract goes here	
5 6	Subject headings: Catalogs; Fermi Gamma-ray Space Telescope; Gamma rays: observations; pulsar wind nebula	
7	*Todo list	
8	Start Date	2
9	End Date	2
10	Put table comments	6
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12	How many pulsars?	8
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19	1. Introduction	
20	The introduction goes here	
20	Primary motivations for improved analysis	
21	i ilmary monvations for improved analysis	
22	1. More data (3 years vs 18 months)	

PWNCAT2

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- 2. Many new GeV pulsars
- 3. Hope to find new PWN in the off-peak emission of LAT-detected GeV Pulsars.
  - 4. Going to higher energies thanks to improved IRFs.
    - 5. Better spatial/morphological analysis due to new pointlike code.

### 2. LAT Description and Observations

Description goes here...

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We used the same data set as that used in the second *Fermi-LAT* pulsar catalog. In particular, this data set spans 3 years from XXXXXXX XXXXXX.

### 3. Timing Analysis

Timing analysis goes here...

### 4. Off-peak Phase Selection

Figure 1 shows the off peak selection for some pulsars...

To study the off-peak emission of LAT-detected pulsars, we first developed a new method for defining the off-peak emission. The primary constraint for this method was that it was systematic, computationally efficient and model independent, and that it correctly removed the pulsed emission for already studied pulsars.

- The method we developed required first representing the
- THe off peak phase range is defined in Table 1.

Start
Date

| End

End Date

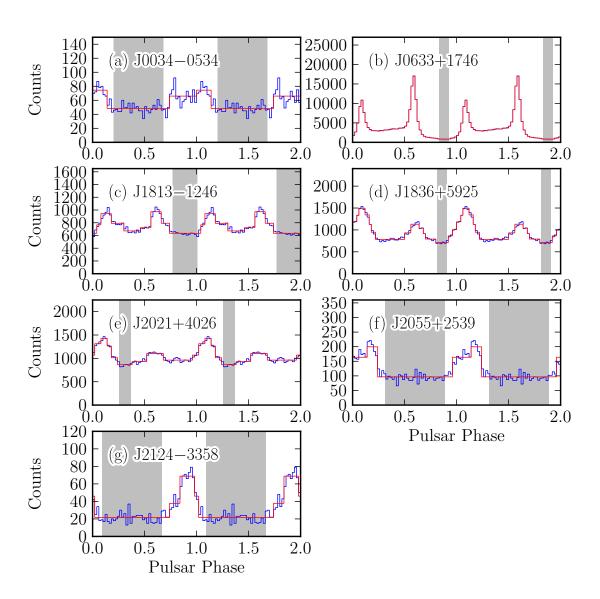


Fig. 1.— Off peak selection for some pulsars...

Table 1. Timing Observatories, definition of the off-peak region, and pulsar distances.

PSR	ObsID	PHASE	Distance	Observation period rejected (MJD)
J0007 + 7303	• • •	0.53 - 0.91		•••
J0030+0451	• • •	0.71 - 0.05	•••	
J0034 - 0534	• • •	0.21 - 0.68	•••	
J0106+4855	• • •	0.24 - 0.54	• • • •	•••
J0218+4232	• • •	0.83 - 0.17	•••	
J0248+6021	• • •	0.56 - 0.12	• • • •	•••
J0340+4130	• • •	0.17 - 0.64	•••	
J0357 + 3205	• • •	0.37 - 0.85	•••	
J0437 - 4715	• • •	0.60 - 0.16	• • • •	•••
J0534+2200	• • •	0.60 - 0.84	•••	
J0610 - 2100	• • •	0.29 - 0.51	•••	
J0613 - 0200	• • •	0.57 - 0.05	•••	
J0614 - 3329	• • •	0.36 - 0.50	•••	
J0622 + 3749	• • •	0.31 - 0.87	•••	
J0631+1036	• • •	0.64 - 0.19	• • •	•••
J0633 + 0632	• • •	0.65 - 0.96	• • •	•••
J0633+1746	• • •	0.84 - 0.92	• • •	•••
J0659+1414	• • •	0.41 - 0.04	• • •	•••
J0729 - 1448	• • •	0.70 - 0.42	• • •	•••
J0734 - 1559	• • • •	0.33 - 0.83	• • •	•••
J0742 - 2822	• • •	0.73 - 0.37	• • •	•••
J0751+1807	• • •	0.75 - 0.29	• • •	•••
J0835 - 4510	• • •	0.85 - 0.03	• • •	•••
J0908 - 4913	• • •	0.17 - 0.53	• • •	•••
J0940 - 5428	• • •	0.56 - 0.14	• • •	•••
J1016 - 5857	• • •	0.62 - 0.01	• • •	•••
J1019 - 5749	• • • •	0.66 - 0.37	• • •	•••
J1023 - 5746	• • •	0.67 - 0.01	• • •	•••
J1024-0719	• • •	0.88 - 0.34	• • •	•••
J1028 - 5819	• • •	0.77 - 0.08	• • •	•••
J1044 - 5737	• • • •	0.56 - 0.96	• • •	•••
J1048 - 5832	• • •	0.67 - 0.03	• • •	•••
J1057 - 5226	• • •	0.16 - 0.56	• • •	•••
J1105-6107	• • • •	0.69-0.03	• • •	•••
J1119-6127	• • •	0.60 - 0.18	• • •	•••
J1135-6055	• • •	0.44-0.86	• • •	•••
J1231-1411	• • • •	0.86-0.10	• • • •	•••
J1357-6429	• • • •	0.79-0.01	• • •	•••
J1410-6132	• • • •	0.51-0.89	• • •	•••
J1413-6205	• • •	0.58-0.02	• • • •	•••
J1418-6058	• • •	0.66-0.92		•••
J1420-6048	• • •	0.57-0.05	• • • •	•••
J1429-5911	• • •	0.32-0.42	• • • •	•••
J1459-6053	• • •	0.33-0.67	• • • •	•••
J1509 - 5850	• • •	0.65 - 0.13		•••

Table 1—Continued

PSR	ObsID	PHASE	Distance	Observation period rejected (MJD)
J1513 - 5908		0.52 - 0.12	• • •	•••
J1531 - 5610		0.55 - 0.19		•••
J1600 - 3053		0.53 - 0.09	• • •	•••
J1614 - 2230		0.83 - 0.17	• • •	•••
J1620 - 4927		0.54 - 0.98		•••
J1702 - 4128		0.58 - 0.16		• • •
J1709 - 4429		0.75 - 0.07		•••
J1713+0747		0.67 - 0.19		•••
J1718 - 3825		0.01 - 0.19		•••
J1732 - 3131		0.79 - 0.95		•••
J1741 - 2054		0.47 - 0.97		•••
J1744 - 1134		0.16 - 0.72		•••
J1746 - 3239	• • •	0.42 - 0.98		•••
J1747 - 2958		0.66 - 0.10		•••
J1803 - 2149		0.58 - 0.02		•••
J1809 - 2332		0.53 - 0.91		•••
J1813 - 1246		0.78 - 0.01		•••
J1823 - 3021A		0.09 - 0.56		•••
J1826 - 1256		0.26 - 0.52		•••
J1836 + 5925		0.82 - 0.90		•••
J1846 + 0919		0.42 - 0.88		•••
J1907+0602		0.69 - 0.05		•••
J1939+2134		0.09 - 0.47		•••
J1952 + 3252		0.73 - 0.05		•••
J1954+2836	• • •	0.67 - 0.98		
J1957 + 5033		0.44 - 0.90		•••
J1958+2846	• • •	0.64 - 0.92		
J1959+2048	• • •	0.79 - 0.97		
J2017+0603	• • •	0.76 - 0.20		
J2021 + 3651	• • •	0.74 - 0.98		
J2021+4026	• • •	0.26 - 0.36	•••	•••
J2028+3332	• • •	0.58 - 0.97	•••	•••
J2030+3641	• • •	0.71 - 0.21	•••	•••
J2030+4415	• • •	0.94 - 0.02	•••	•••
J2032+4127	• • •	0.68 - 0.92		•••
J2043+2740	• • •	0.64 - 0.04	•••	•••
J2051 - 0827	• • •	0.77 - 0.24		•••
J2055+2539	• • •	0.39 - 0.86		•••
J2124 - 3358	• • •	0.14 - 0.58	•••	•••
J2139+4716	• • •	0.27 - 0.90		•••
J2214+3000	• • •	0.64 - 0.74		•••
J2238 + 5903	• • •	0.65 - 0.99	• • •	•••
J2240+5832	• • •	0.70 - 0.46		•••
J2302+4442	• • •	0.75 - 0.23	• • • •	

### 5. Analysis of the *Fermi*-LAT data

Methods for data analysis

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- Cut on pulsar phase
  - Perform localization or extension fitting using gtlike using energies from 1 GeV to 316 GeV.
  - Perform spectral analysis using gtlike for energies above 100 MeV to 316 GeV.
  - There is a detection if TS > 25 in the point-like source hypothesis after fitting the position of the point-like source.
  - $\bullet$  Consider the source to be extended if  $TS_{\rm ext} > 16$ . Similar to extended source search paper .
  - Calculate TS<sub>cutoff</sub> for all energies.
- When to consider the source a pulsar or PWN.
  - If extended, then it is a PWN (cannot be a pulsar)
  - If it is significant for E;10 GeV, it is a PWN (too hard to be a pulsar)
  - Otherwise, if it has a cutoff, it is a Pulsar candidate
  - For point-like emission that is not significantly cutoff, the emission mechanism is uncertain.

58 6. Results

- Results goes here...
- Table 2 shows the results of the all energy analysis of the off-peak emission for each pulsar.
- Table 3 shows the results of the analysis in separate energy bins of each pulsar.
- Table 4 shows the results of the cutoff test for pulsars with significant low-energy emission.

cite extended source

search paper

Table 2. All Energy spectral fit for the

# How many pulsars?

# LAT-detected Pulsars

PSR	TS	$F_{0.1-316}$ $(10^{-9} \text{ph cm}^{-2} \text{s}^{-1})$	Γ
J0007+7303	1.6	< 18.76	
J0030+0451	14.0	< 8.19	
J0034-0534	41.9	$15.88 \pm 4.74$	$2.41 \pm 0.19$
J0106+4855	0.0	< 6.80	2.41 ± 0.13
J0218+4232	33.9	$49.22 \pm 20.43$	$2.79 \pm 0.49$
J0248+6021		$49.22 \pm 20.43$ < $13.59$	2.79 ± 0.49
J0340+4130	$18.5 \\ 25.6$	$10.50 \pm 3.68$	$2.13 \pm 0.15$
			2.13 ± 0.13
J0357+3205	0.0	< 2.97	
J0437-4715	0.0	None	
J0534+2200	4957.5	$559.70 \pm 19.47$	$2.24 \pm 0.02$
J0610-2100	0.0	< 3.23	• • •
J0613-0200	0.0	< 3.37	• • •
J0614 - 3329	15.6	< 15.81	• • •
J0622 + 3749	1.0	< 7.81	• • •
J0631+1036	15.1	< 14.03	
J0633 + 0632	4.1	< 10.20	
J0633+1746	2851.0	$882.36 \pm 30.61$	$2.28 \pm 0.03$
J0659+1414	0.0	< 1.77	
J0729 - 1448	0.0	< 4.85	
J0734 - 1559	24.5	< 12.39	
J0742 - 2822	0.0	< 6.76	
J0751 + 1807	8.1	< 5.70	
J0835-4510	286.0	$288.52 \pm 22.98$	$2.54 \pm 0.06$
J0908-4913	21.7	< 29.39	
J0940-5428	0.0	< 1.73	
J1016-5857	0.0	< 12.99	
J1019-5749	3.7	< 14.67	
J1023-5746	68.5	$96.55 \pm 27.38$	$2.25 \pm 0.11$
			$2.25 \pm 0.11$
J1024-0719	0.0	< 2.30	
J1028-5819	9.7	< 29.20	
J1044-5737	0.0	< 17.85	• • •
J1048-5832	7.8	< 19.16	• • •
J1057-5226	0.8	< 5.03	• • •
J1105-6107	10.9	< 32.30	•••
J1119-6127	110.5	$77.87 \pm 15.89$	$2.28 \pm 0.09$
J1135 - 6055	4.2	< 6.81	• • •
J1231-1411	0.0	< 3.21	• • •
J1357 - 6429	2.9	< 5.94	• • •
J1410 - 6132	22.4	< 50.77	
J1413 - 6205	2.8	< 12.42	
J1418 - 6058	11.8	< 49.69	
J1420 - 6048	0.0	< 26.02	
J1429 - 5911	0.0	< 12.98	
J1459-6053	0.3	< 9.28	
J1509-5850	0.7	< 10.88	
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Table 2—Continued

PSR	TS	$F_{0.1-316}$ $(10^{-9} \text{ph cm}^{-2} \text{s}^{-1})$	Γ	
J1513-5908	117.9	$16.05 \pm 6.39$	$1.74 \pm 0.11$	
J1531 - 5610	0.0	< 3.49		
J1600 - 3053	0.0	< 1.85		
J1614 - 2230	0.0	< 5.77		
J1620 - 4927	33.5	$70.36 \pm 19.70$	$2.20 \pm 0.11$	
J1702 - 4128	0.0	< 6.30		
J1709 - 4429	14.8	< 15.42		
J1713+0747	2.1	< 4.93		
J1718 - 3825	0.0	< 14.61		
J1732 - 3131	0.0	< 8.69		
J1741 - 2054	12.0	< 14.27		
J1744 - 1134	74.3	$47.28 \pm 8.68$	$2.35 \pm 0.08$	
J1746 - 3239	54.7	$109.56 \pm 22.82$	$2.54 \pm 0.15$	
J1747 - 2958	32.6	$124.33 \pm 30.73$	$2.36 \pm 0.11$	
J1803 - 2149	6.7	< 29.50		
J1809 - 2332	24.8	< 38.61		
J1813 - 1246	57.3	$200.61 \pm 41.33$	$2.59 \pm 0.14$	
J1823 - 3021A	2.7	< 5.11		
J1826 - 1256	20.0	< 68.93		
J1836 + 5925	5020.0	$561.42 \pm 17.71$	$2.11 \pm 0.02$	
J1846 + 0919	0.0	< 3.35		
J1907+0602	0.0	< 7.55		
J1939+2134	0.0	< 4.40	• • •	
J1952 + 3252	0.2	< 7.71	• • •	
J1954+2836	6.1	< 18.52	• • •	
J1957 + 5033	0.0	< 2.52	• • •	
J1958 + 2846	0.0	< 7.72		
J1959+2048	0.0	< 4.89		
J2017+0603	0.0	< 2.96		
J2021+3651	0.0	< 7.59		
J2021+4026	909.4	$1206.23 \pm 57.85$	$2.29 \pm 0.02$	
J2028+3332	0.0	< 4.58		
J2030+3641	0.0	< 2.96		
J2030+4415	3.1	< 26.78		
J2032+4127	11.7	< 31.08		
J2043+2740	0.0	< 2.58		
J2051-0827	0.0	< 1.89		
J2055+2539	108.4	$47.02 \pm 6.41$	$2.53 \pm 0.08$	
J2124-3358	103.4	$19.86 \pm 3.88$	$2.13 \pm 0.10$	
J2139+4716	16.8	< 9.29		
J2214+3000	0.0	< 5.02		
J2238+5903	0.3	< 6.62		
J2240+5832	0.0	< 6.21	0.00   0.10	
J2302+4442	114.7	$33.50 \pm 5.34$	$2.38 \pm 0.10$	

Table 3. Energy bin spectral fit for the

# How many pulsars?

# LAT-detected Pulsars

PSR	$TS_{0.1-1}$	$F_{0.1-1}$ $(10^{-9} \text{ph cm}^{-2} \text{s}^{-1})$	$TS_{1-10}$	$F_{1-10}$ $(10^{-9} \text{ph cm}^{-2} \text{s}^{-1})$	$TS_{10-316}$	$F_{10-316}$ $(10^{-9} \mathrm{ph}\mathrm{cm}^{-2}\mathrm{s}^{-1})$
J0007 + 7303	41.5	$24.69 \pm 4.11$	23.4	< 1.41	1.2	< 0.15
J0030+0451	14.3	< 16.86	4.2	< 0.60	0.0	< 0.12
J0034 - 0534	20.1	< 15.78	25.5	$0.64 \pm 0.19$	0.0	< 0.07
J0106+4855	1.5	< 11.34	2.8	< 0.80	0.0	< 0.11
J0218+4232	54.3	$30.70 \pm 4.56$	7.6	< 1.13	0.0	< 0.10
J0248+6021	27.6	$32.78 \pm 6.38$	4.2	< 0.96	2.5	< 0.13
J0340+4130	0.6	< 9.05	36.3	$1.16 \pm 0.26$	0.0	< 0.07
J0357 + 3205	0.0	< 6.04	0.0	< 0.40	0.0	< 0.09
J0437 - 4715	0.7	< 5.11	0.0	< 0.21	0.0	< 0.05
J0534+2200	2065.0	$432.14 \pm 12.30$	2101.7	$28.41 \pm 1.28$	1227.0	$5.35 \pm 0.47$
J0610 - 2100	0.0	< 6.16	0.0	< 0.52	0.0	< 0.15
J0613 - 0200	0.4	< 10.87	0.0	< 0.38	0.0	< 0.10
J0614 - 3329	16.8	< 28.41	1.8	< 1.09	0.0	< 0.22
J0622 + 3749	3.2	< 10.50	10.1	< 0.92	0.0	< 0.07
J0631+1036	14.2	< 30.84	4.0	< 1.12	2.3	< 0.15
J0633 + 0632	0.0	< 15.66	2.2	< 1.46	0.0	< 0.17
J0633+1746	2432.9	$770.12 \pm 23.09$	865.5	$40.45 \pm 2.66$	0.0	< 0.53
J0659+1414	0.0	< 4.00	0.0	< 0.27	0.0	< 0.06
J0729 - 1448	5.7	< 18.70	0.1	< 0.48	0.0	< 0.06
J0734 - 1559	36.7	$33.00 \pm 5.75$	0.0	< 0.65	0.0	< 0.08
J0742 - 2822	6.8	< 20.10	0.0	< 0.49	2.4	< 0.12
J0751 + 1807	1.8	< 7.59	9.6	< 0.71	0.0	< 0.06
J0835 - 4510	326.1	$227.40 \pm 14.24$	42.2	$5.62 \pm 1.10$	0.0	< 0.39
J0908 - 4913	34.2	$55.16 \pm 9.73$	2.0	< 1.78	3.5	< 0.26
J0940 - 5428	0.0	< 2.40	0.0	< 0.32	0.8	< 0.12
J1016 - 5857	0.0	< 21.99	0.6	< 1.54	1.3	< 0.23
J1019 - 5749	15.1	< 49.63	3.0	< 1.44	0.0	< 0.10
J1023 - 5746	49.1	$84.11 \pm 12.34$	31.9	$3.98 \pm 0.82$	23.1	< 0.73
J1024 - 0719	0.0	< 5.49	0.0	< 0.30	0.0	< 0.08
J1028 - 5819	7.6	< 54.10	8.6	< 2.91	0.0	< 0.26
J1044 - 5737	13.7	< 45.84	3.6	< 1.65	0.0	< 0.12
J1048 - 5832	5.7	< 38.88	8.7	< 2.14	0.0	< 0.14
J1057 - 5226	0.1	< 10.22	0.9	< 0.58	0.0	< 0.12
J1105-6107	17.2	< 62.57	10.4	< 3.18	0.2	< 0.19
J1119 - 6127	82.3	$69.07 \pm 7.91$	63.0	$3.38 \pm 0.52$	15.2	< 0.29
J1135-6055	2.2	< 24.14	0.0	< 0.66	1.5	< 0.12
J1231-1411	0.3	< 10.39	0.0	< 0.36	0.0	< 0.14
J1357-6429	0.0	< 13.11	0.0	< 0.65	1.2	< 0.27
J1410-6132	7.6	< 65.87	14.5	< 4.94	7.4	< 0.60
J1413-6205	0.0	< 14.31	1.8	< 1.87	1.4	< 0.22
J1418-6058	1.6	< 51.21	11.4	< 5.69	5.8	< 0.64
J1420-6048	0.4	< 32.17	0.4	< 2.28	10.0	< 0.45
J1429-5911	0.0	< 23.55	0.0	< 1.90	0.4	< 0.43
J1459-6053	2.6	< 32.19	0.0	< 0.81	0.0	< 0.22
J1509 - 5850	1.2	< 30.14	0.0	< 1.20	0.0	< 0.18

Table 3—Continued

PSR	$TS_{0.1-1}$	$F_{0.1-1}$ $(10^{-9} \text{ph cm}^{-2} \text{s}^{-1})$	$TS_{1-10}$	$F_{1-10}$ $(10^{-9} \text{ph cm}^{-2} \text{s}^{-1})$	$TS_{10-316}$	$F_{10-316}$ $(10^{-9} \mathrm{ph} \mathrm{cm}^{-2} \mathrm{s}^{-1})$
J1513-5908	5.1	< 35.07	32.8	$2.42 \pm 0.51$	83.7	$0.54 \pm 0.11$
J1531 - 5610	0.0	< 5.05	0.0	< 0.66	0.3	< 0.15
J1600 - 3053	0.0	< 3.47	0.0	< 0.35	0.0	< 0.06
J1614 - 2230	0.0	< 9.78	1.9	< 0.84	0.0	< 0.11
J1620 - 4927	20.4	< 90.79	20.4	< 5.64	6.1	< 0.41
J1702 - 4128	0.0	< 11.77	0.0	< 0.96	0.1	< 0.21
J1709 - 4429	16.5	< 65.45	0.1	< 1.16	0.0	< 0.16
J1713+0747	4.6	< 13.46	0.5	< 0.50	0.0	< 0.07
J1718 - 3825	0.3	< 51.76	0.0	< 1.61	0.1	< 0.33
J1732 - 3131	0.0	< 23.77	0.0	< 1.20	0.0	< 0.39
J1741 - 2054	7.9	< 33.06	2.3	< 1.16	3.3	< 0.20
J1744-1134	32.0	$33.58 \pm 6.21$	48.8	$2.25 \pm 0.41$	0.4	< 0.10
J1746 - 3239	74.1	$85.14 \pm 10.28$	22.9	< 3.49	0.0	< 0.08
J1747 - 2958	54.2	$122.66 \pm 16.98$	28.7	$4.86\pm1.04$	0.0	< 0.15
J1803 - 2149	3.0	< 55.66	2.4	< 2.77	2.5	< 0.41
J1809 - 2332	47.2	$87.15 \pm 13.16$	7.1	< 2.81	0.0	< 0.16
J1813 - 1246	71.6	$140.50 \pm 17.54$	21.0	< 5.45	0.8	< 0.33
J1823 - 3021A	0.3	< 12.08	0.0	< 0.40	3.3	< 0.18
J1826 - 1256	32.2	$123.26 \pm 22.17$	4.9	< 5.06	0.3	< 0.47
J1836 + 5925	3491.7	$497.90 \pm 14.02$	2421.1	$44.07 \pm 2.19$	0.0	< 0.28
J1846+0919	0.0	< 8.72	0.0	< 0.46	0.0	< 0.11
J1907+0602	0.8	< 40.61	0.0	< 1.06	0.0	< 0.14
J1939+2134	0.0	< 11.60	0.0	< 0.85	0.0	< 0.12
J1952 + 3252	2.1	< 24.53	0.0	< 0.88	0.0	< 0.13
J1954+2836	2.9	< 36.33	5.5	< 2.12	0.1	< 0.18
J1957 + 5033	0.0	< 5.54	0.0	< 0.29	0.1	< 0.09
J1958+2846	0.0	< 13.30	0.4	< 1.30	0.0	< 0.16
J1959+2048	0.6	< 21.38	0.0	< 0.53	0.0	< 0.18
J2017+0603	0.8	< 10.00	0.0	< 0.31	0.0	< 0.10
J2021 + 3651	0.9	< 37.70	0.0	< 1.07	0.0	< 0.14
J2021+4026	1747.0	$1008.54 \pm 29.42$	923.5	$60.15 \pm 3.16$	7.6	< 1.25
J2028+3332	0.0	< 12.66	0.0	< 0.76	0.0	< 0.09
J2030+3641	0.0	< 13.03	0.0	< 0.42	0.0	< 0.09
J2030+4415	0.1	< 45.39	1.1	< 2.94	2.0	< 0.62
J2032+4127	0.1	< 35.03	3.5	< 2.88	8.7	< 0.71
J2043+2740	0.0	< 5.44	0.3	< 0.34	0.0	< 0.10
J2051 - 0827	0.0	< 3.77	0.0	< 0.29	0.0	< 0.09
J2055+2539	106.3	$36.24 \pm 4.00$	23.0	< 1.50	0.0	< 0.07
J2124 - 3358	16.6	< 16.97	107.2	$2.01 \pm 0.30$	0.0	< 0.07
J2139+4716	10.0	< 18.78	8.0	< 1.02	0.0	< 0.05
J2214+3000	1.1	< 18.13	0.0	< 0.48	0.0	< 0.28
J2238+5903	0.8	< 18.92	0.2	< 0.88	0.0	< 0.10
J2240+5832	0.0	< 8.66	5.6	< 1.05	0.0	< 0.06
J2302+4442	61.9	$24.28 \pm 3.41$	61.1	$1.47 \pm 0.26$	0.0	< 0.08

The localization results are in Table 5

### Add table on PWN Variability

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Figure 2 shows the cutoff test...

#### 7. Discussion

The discussion goes here...

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#### REFERENCES

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 Bartelmann, M. 2005, ApJ, 622, 759

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

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

Table 4. Spectral fitting of pulsar wind nebula candidates with low energy component

PSR	$G_{0.1-316}$ $(10^{-12} \mathrm{erg}\mathrm{cm}^{-2}\mathrm{s}^{-1})$	Γ	$E_{\text{cutoff}}$ (GeV)	$TS_{cutoff}$
J0034-0534	$6.06 \pm 1.59$	$1.49 \pm 0.67$	$1.52\pm1.17$	5.3
J0633+1746	$415.30 \pm 12.92$	$1.41 \pm 0.10$	$1.00 \pm 0.13$	177.0
J1813 - 1246	$65.41 \pm 3.93$	$1.68 \pm 0.03$	$1.00 \pm 0.05$	2.5
J1836 + 5925	$330.12 \pm 8.76$	$1.40 \pm 0.03$	$1.64 \pm 0.07$	203.4
J2021+4026	$585.23 \pm 16.60$	$1.64 \pm 0.03$	$1.83 \pm 0.07$	124.2
J2055+2539	$15.57 \pm 2.25$	$0.67 \pm 0.71$	$0.47 \pm 0.20$	29.1
J2124 - 3358	$9.80 \pm 1.57$	$0.15 \pm 0.84$	$0.91 \pm 0.42$	27.6

## Put table comments

Table 5. Localization results

PSR	GLON (deg)	$_{ m (deg)}$	Offset (deg)	tsext	Extension
J0007+7303	119.66	10.46	0.00	91.6	$0.33 \pm 0.07$
J0034 - 0534	111.53	-68.03	0.04	3.0	None
J0218+4232	139.56	-17.53	0.05	0.0	None
J0340+4130	153.81	-11.00	0.04	0.0	None
J0534+2200	184.55	-5.79	0.01	0.0	None
J0633+1746	195.12	4.22	0.05	1.3	None
J0835 - 4510	263.55	-2.79	0.00	325.4	$0.84 \pm 0.09$
J1023 - 5746	283.96	-0.54	0.24	158.3	$1.41 \pm 0.05$
J1119 - 6127	292.06	-0.58	0.10	30.7	$0.29 \pm 0.06$
J1513 - 5908	320.34	-1.20	0.04	0.0	None
J1620 - 4927	333.87	0.25	0.16	32.3	$0.10 \pm 0.01$
J1744-1134	14.79	9.18	0.00	0.0	None

Note. —

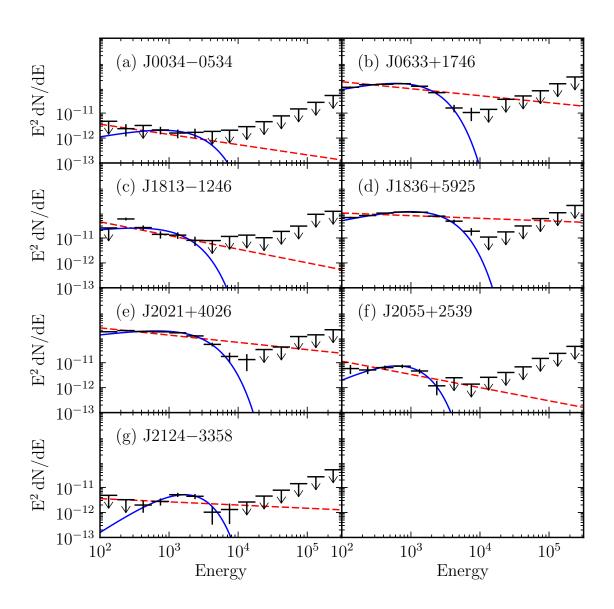


Fig. 2.— Cutoff test for some pulsars...

A. Validation of Extension Upper Limits