FA-GSW Report DOY 230 (Aug 18, 2009)

Flare-Advocate/Gamma-ray-Sky-Watcher report: DOY 230 (August 18, 2009)

On Duty Flare Advocates:

FA: Denis Bastieri (bastieri@pd.infn.it)

Highlights

Extragalactic Science

- 3c279 still absent
- 3c454.3 at $1.72 \pm 0.37 \times 10^6$
- 3C 273 (TS=70) flaring at $1.66 \pm 0.46 \times 10^6$
- PKS 1510089 (TS=73) flaring at $1.81 \pm 0.44 \times 10^6$
- Several sources active but below 10^6
  - CRATES J134532+445250 (TS=20) at $0.64 \pm 0.30 \times 10^6$
  - 4C +38.41 (TS=41) at $0.89 \pm 0.28 \times 10^6$

Galactic Science

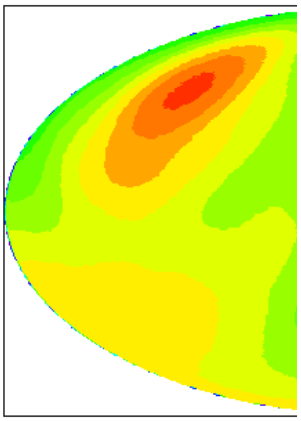
- Usual recurrent sources:
  - Crab, Geminga, Vela
  - LAT PSR J0007+7303 (TS=94) at $0.65 \pm 0.18 \times 10^6$
  - LAT PSR J18092332 (TS=19) at $1.23 \pm 0.60 \times 10^6$
  - LAT PSR J1836+5925 (TS=117) at $0.87 \pm 0.20 \times 10^6$
  - LAT PSR J2021+4026 (TS=52) at $1.50 \pm 0.45 \times 10^6$

Technical notes

- Fluxes are given in units of ph × cm^2 s^1 in the 0.1 ÷ 300 GeV energy band.
- Science Tools: v9r15p2
- Results are obtained with unbinned likelihood using iLat and FA-dedicated scripts.
- "diffuse" fits are downloaded via the new astroserver as suggested by Tony Johnson. An example for the daily run:
  ~glast/astroserver/prod/astro --database AstroPass6p105 --eventClass "event_class > 2"
  --minTimestamp 272246401 --maxTimestamp 272332801
  --output-ft1 asp_daily_00420/Filtered_evt_00420_diffuse.fits store
- IRF used : P6_V3_DIFFUSE

Likelihood Analysis results:

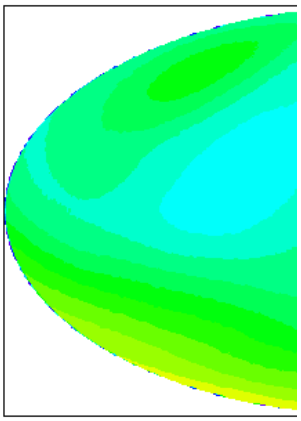
Daily Run (n. 420)



Extragalactic Sources	RA (J2000)	DEC (J2000)	L	B	TS	Npred	Flux*	Flux err*	index	index err	Delta	ID
3C273	187.353	2.1903	290.057	64.5101	70	26	1.66	0.46	2.65	0.29	0° 9.7'	3C 273
ASPJ134421p451449	206.241	45.2424	95.9179	68.9752	20	11	0.64	0.30	2.74	0.47	0°21.5'	CRATES J134532+445250
1510m089	228.755	-9.1359	351.774	39.7488	73	34	1.81	0.44	2.81	0.28	–	PKS 1510089
1633p382	248.322	38.5253	61.5816	42.7469	41	19	0.89	0.28	2.94	0.40	0°30.5'	4C +38.41
3C454.3	343.675	16.1509	86.3003	-38.2795	117	46	1.72	0.37	2.49	0.20	0°10.4'	3C 454.3

Galactic Sources	RA (J2000)	DEC (J2000)	L	B	TS	Npred	Flux*	Flux err*	index	index err	Delta	ID
ASPJ000659p725318	1.7228	73.0736	119.653	10.486	94	30	0.65	0.18	1.80	0.16	0° 1.1'	LAT PSR J0007+7303
CrabPulsar	83.5013	22.0893	184.428	-5.8474	157	66	2.03	0.42	2.10	0.14	0° 8.3'	Crab
Geminga	98.5254	17.8653	195.071	4.35132	762	177	5.24	0.53	1.93	0.07	0° 6.2'	Geminga
VelaPulsar	128.835	-45.1703	263.547	-2.7839	1509	393	12.19	0.81	2.04	0.05	0° 0.4'	Vela
ASPJ180727m223635	272.286	-23.1844	7.6243	-1.6848	19	33	1.23	0.60	2.25	0.30	0°23.6'	LAT PSR J18092332
ASPJ183525p591857	279.091	59.359	88.807	24.969	117	33	0.87	0.20	2.04	0.17	0° 9.3'	LAT PSR J1836+5925
ASPJ202214p402203	305.385	40.3714	78.168	2.04016	52	50	1.50	0.45	2.12	0.18	0° 4.5'	LAT PSR J2021+4026

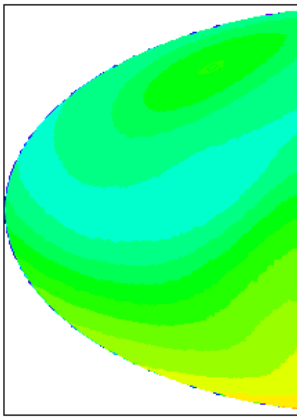
Six hours run (n. 1677)



Extragalactic Sources	RA (J2000)	DEC (J2000)	L	B	TS	Npred	Flux*	Flux err*	index	index err	Delta	ID
1510m089	228.746	-8.9281	351.95	39.9072	34	11	2.12	0.83	2.35	0.35	–	PKS 1510089
3C454.3	343.403	15.5075	85.5653	-38.6684	30	11	2.44	1.07	3.02	0.63	0°38.9'	3C 454.3

Galactic Sources	RA (J2000)	DEC (J2000)	L	B	TS	Npred	Flux*	Flux err*	index	index err	Delta	ID
ASPJ053028p211725	83.5766	21.6006	184.881	-6.05019	44	19	2.91	1.03	2.29	0.28	0°25.2'	Crab
Geminga	98.5096	17.7745	195.145	4.29653	189	43	5.48	1.15	2.01	0.15	0° 1.6'	Geminga
VelaPulsar	128.781	-45.2148	263.56	-2.84102	613	163	13.68	1.38	2.01	0.07	0° 3.4'	Vela

Six hours run (n. 1678)

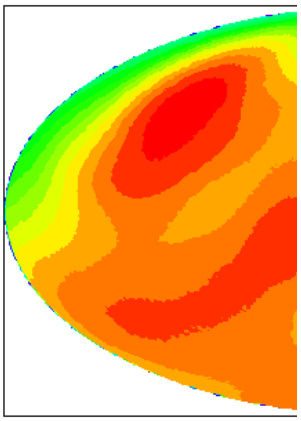


Extragalactic Sources	RA (J2000)	DEC (J2000)	L	B	TS	Npred	Flux*	Flux err*	index	index err	Delta	ID
3C454.3	343.498	15.8147	85.8819	-38.4648	36	14	2.33	0.92	2.76	0.42	0°20.1'	3C 454.3

Galactic Sources	RA (J2000)	DEC (J2000)	L	B	TS	Npred	Flux*	Flux err*	index	index err	Delta	ID
ASPJ053028p211725	83.2496	22.0164	184.364	-6.08336	23	13	2.17	1.01	2.41	0.40	0°21.1'	Crab
Geminga	98.4598	17.8778	195.031	4.30146	190	44	5.61	1.16	1.96	0.14	0° 6.6'	Geminga
VelaPulsar	128.79	-45.1657	263.524	-2.80663	457	119	13.57	1.66	2.17	0.10	0° 2.2'	Vela

UFOs or ID not found	RA (J2000)	DEC (J2000)	L	B	TS	Npred	Flux*	Flux err*	index	index err	Delta	ID
ASPJ101714m590136	154.918	-59.1171	284.526	-1.78031	17	18	2.96	1.15	2.59	0.38	0°13.2'	EMS0667
ASPJ181057m205516	273.25	-20.25	10.6281	-1.05654	14	25	4.93	1.98	2.93	0.44	–	??

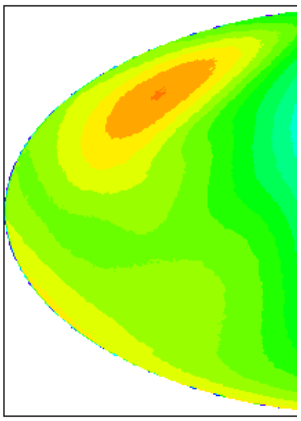
Six hours run (n. 1679)



Extragalactic Sources	RA (J2000)	DEC (J2000)	L	B	TS	Npred	Flux*	Flux err*	index	index err	Delta	ID
3C273	187.745	2.3786	290.871	64.7703	23	6	1.98	1.04	2.42	0.47	0°34.5'	3C 273
1510m089	228.287	-8.7744	351.65	40.3282	14	7	1.16	0.61	2.56	0.51	–	PKS 1510089

Galactic Sources	RA (J2000)	DEC (J2000)	L	B	TS	Npred	Flux*	Flux err*	index	index err	Delta	ID
ASPJ000659p725318	1.8418	73.149	119.701	10.5543	60	15	1.04	0.38	1.77	0.21	0° 5.6'	LAT PSR J0007+7303
ASPJ053216p230319	83.5989	22.2144	184.371	-5.7040 5	66	17	1.53	0.61	1.73	0.21	0°11.9'	Crab
Geminga	98.5072	17.9641	194.975	4.38096	159	39	5.14	1.10	1.99	0.15	0°11.7'	Geminga
VelaPulsar	128.827	-45.1358	263.516	-2.7681 1	87	30	9.74	2.51	2.12	0.19	0° 2.4'	Vela
ASPJ183525p591857	279.299	59.2767	88.742 6	24.8486	42	13	1.10	0.40	2.09	0.27	0°11.6'	LAT PSR J1836+5925

Six hours run (n. 1680)



Extragalactic Sources	RA (J2000)	DEC (J2000)	L	B	TS	Npred	Flux*	Flux err*	index	index err	Delta	ID
3C273	187.258	2.5141	289.688	64.808 1	87	20	5.64	1.60	2.52	0.28	0°28.0'	3C 273

Galactic Sources	RA (J2000)	DEC (J2000)	L	B	TS	Npred	Flux*	Flux err*	index	index err	Delta	ID
ASPJ053216p230319	83.4279	22.153	184.337	-5.8706 2	63	21	2.20	0.74	1.94	0.20	0°13.8'	Crab
Geminga	98.4024	17.756	195.115	4.19725	280	54	4.82	0.85	1.79	0.11	0° 4.6'	Geminga
VelaPulsar	128.853	-45.1483	263.536	-2.7610 7	578	129	11.62	1.34	1.89	0.08	0° 1.7'	Vela

UFOs or ID not found	RA (J2000)	DEC (J2000)	L	B	TS	Npred	Flux*	Flux err*	index	index err	Delta	ID
ASPJ174500m291500	266.211	-29.55	359.388	-0.1757 7	12	11	3.16	1.81	2.04	0.34	0°13.3' 0°34.0' 0°40.2' 0°53.5'	EMS1173 G359.950.04 PSR J1747295 8 1E 1743.12843
ASPJ183054m084451	277.75	-7.75	23.708 9	0.97681	12	17	4.49	2.28	2.35	0.36	–	??

* $F(E>100MeV) \times 10^{6}$ ph cm^{2} s^{1}