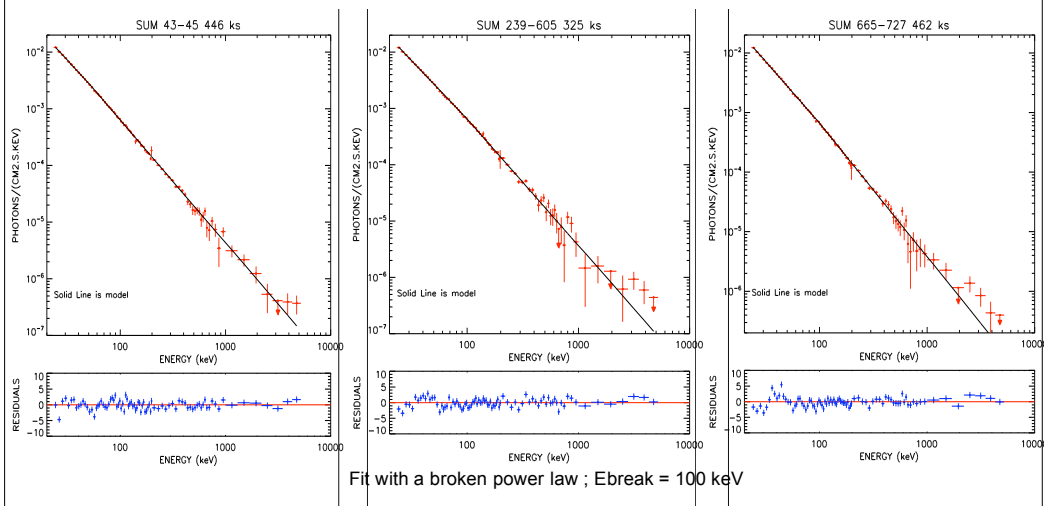


CRAB OBSERVATIONS

- Beginning of the mission
Rev 43-44-45 446 ks
- Regular calibration campaigns
Rev 239-300-365-422-483-541-605 325 ks
5X5 patterns
- 2008 campaign
Rev 665-666-727 (728) 5X5 patterns 462 ks

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SUM for 3 periods



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Fit results with a Broken Powerlaw model

Rev #	Durati on (ks)	Index 1	break (keV) fixed	Index 2	Reduced χ^2 (35 dof)	Norme @ 100 keV (ph/cm ² s keV)
239	31	2.07 +/- 0.02	100	2.36 +/- 0.1	1.32	6.35 10 ⁻⁴
300	38	2.09 +/- 0.02	100	2.23 +/- 0.1	1.67	6.35 10 ⁻⁴
365	30	2.06 +/- 0.02	100	2.34 +/- 0.1	0.99	6.6 10 ⁻⁴
422	39	2.09 +/- 0.02	100	2.20 +/- 0.1	1.17	6.4 10 ⁻⁴
483	32.5	2.11 +/- 0.02	100	2.20 +/- 0.1	1.85* No standard Dithering	6.3 10 ⁻⁴
541	71.5	2.08 +/- 0.02	100	2.21 +/- 0.1	0.95	6.3 10 ⁻⁴
605	84	2.08 +/- 0.02	100	2.20 +/- 0.1	1.7	6.4 10 ⁻⁴
Sum1 239-605	326	2.08 +/- 0.01	100	2.23 +/- 0.05	1.62 (110 dof)	6.44 10 ⁻⁴
665	146.5	2.07 +/- 0.01	100	2.23 +/- 0.05	1.23	6.6 10 ⁻⁴
666	154	2.07 +/- 0.02	100	2.23 +/- 0.05	1.7	6.6 10 ⁻⁴
Sum2 239-666	626.5	2.07 +/- 0.02	100	2.23 +/- 0.05	2.36 (110 dof)	6.5 10 ⁻⁴

Energy break fixed

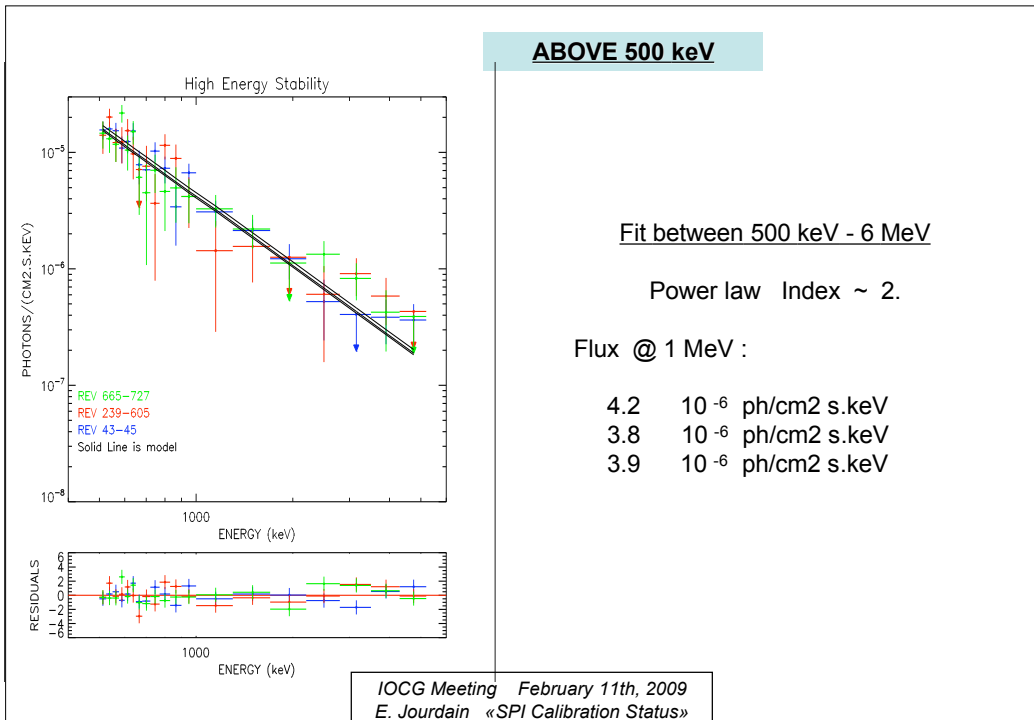
Rev #	Index 1	Ebreak (keV)	Index 2	Norme @ 100 keV (ph/cm ² s keV)
Sum 1	2.07	100	2.24	6.6 10 ⁻⁴
Sum 2	2.07	100	2.25	6.55 10 ⁻⁴
Sum 3	2.065	100	2.25	6.7 10 ⁻⁴

Energy break free

(0% systematic)

Rev #	Index 1	Ebreak (keV)	Index 2	Norme @ 100 keV (ph/cm ² s keV)
Sum 1	2.02	54	2.17	6.6 10 ⁻⁴
Sum 2	2.05	68	2.19	6.4 10 ⁻⁴
Sum 3	2.03	62	2.18	6.5 10 ⁻⁴

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CONCLUSIONS

THANKS TO LONG EXPOSURES, INVESTIGATIONS ON

- SYSTEMATIC EFFECT (above ~ 700 keV)
- EMPTY FIELDS
- STABILITY OF THE GAIN CORRECTION AT HIGH ENERGY
- INSTRUMENT STABILITY AT HIGH ENERGY



RELIABLE DATA UP TO A FEW MEV
IN THE STANDARD 5X5 PATTERN