



Status of the Software/Science Tools development in Perugia

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Fast simulator

(open questions since Udine meeting)

- ❖ **PSF detailed study, new implementation of the Digel/Norris parametrization**
- ❖ **Latest version also working under Linux**
- ❖ **Document ready, approved by S. Digel, to be submitted as GLAST note**
- ❖ **Algorithm for photon data archive ready (HTM method)**
- ❖ **Implementation as CMT package (in progress):**
 - **last version of GlastRelease (v2r1) installed (Windows)**
 - **code is being added to package *Astro***

FastICA (progress since Udine)

- ✓ **Output from fast simulator used to test the method**
- ✓ **Sources position correctly recognized**
- ✓ **More study under development**

PSF (new)

First study with Gleam v4r1 done (Linux)

Preliminary production of 1000 events generated in each angle bin

<i>Digel /Norris</i>	E	=	1	GeV
	Thet	ange	Sigma1	Sigma2
	0	22.5	0.21	0.534
	22.5	32.5	0.176	0.446
	32.5	42.5	0.196	0.493
	42.5	53.1	0.219	0.534
	53.1	57.5	0.259	0.719
	57.5	62.5	0.29	0.85
	62.5	72.5	0.257	0.63
<i>Perugia</i>	Thet	ange	Sigma 68%	Sigma 95%
	0	22.5	0.498	0.809
	22.5	32.5	0.53	0.86
	32.5	42.5	0.516	0.838
	42.5	53.1	0.708	1.149
	53.1	57.5	0.784	1.272
	57.5	62.5	0.702	1.139
	62.5	72.5	0.794	1.289

To be done: install last version of Glast Release under Linux (in progress)

Generate a larger number of events and start a detailed study

**Results on all these topics will be
presented at the**

Perugia meeting May 19-23