

# The TeV Connection

Information and discussions about LAT common interests with the TeV community

## Relevant VHE experiments

Name	Type	Ethresh (1)
<a href="#">H.E.S.S.</a>	Imaging Atmospheric Cherenkov	120 GeV
<a href="#">VERITAS-4</a>	Imaging Atmospheric Cherenkov	120 GeV
<a href="#">CANGAROOIII</a>	Imaging Atmospheric Cherenkov	500 GeV
MILAGRO	Air Shower	400 GeV - 40 TeV (2)
<a href="#">MAGIC</a>	Imaging Atmospheric Cherenkov	50 GeV

(1) We need to distinguish between anticipated threshold and achieved/documentated threshold. Until then, be critical to any quoted number

(2) The threshold/energy response of a ground array like Milagro cannot easily be compared to ACTs. This interval represents the energy range over which 90% of events from a crab-like spectrum are detected.

## Experimental Issues

### Optimizing variability studies

- Visibility tools [proposals and tools H.E.S.S.](#)
- \* [Unified VHE visibility tool](#)
- \* [LAT visibility tool](#)
  
- Alerts/transients/scheduled observations
- \* [VHE timetables](#)

## Analysis Issues

### Spectral fitting tools

- [Calibration](#)
- [Response Functions](#)

### VHE sources

- [Galactic](#)
- [Extragalactic](#)
- [Variable](#)
- [All](#)

## Collaboration & Policy Issues

"Wish List" for H.E.S.S.

The object of desire: What we ought to know about the facilities

Facility	Object visibility/constraints	Analysis technique/data products	Comments
<b>template</b>	energetic threshold = f(dec); low threshold cuts readily available ?	shower reconstruction: which MC/version ?	
	point source sensitivity = f(dec); public? generally applicable ?	high-level data product: gamma-ray excess-map - availability / conditions ?	
	extended source sensitivity = f(source size); public ? generally applicable ?	high-level data product: gamma-ray excess-map - format (root/fits) ?	
	energy resolution public? known dependencies ?	high-level data product: spectral data - availability / conditions ?	
	angular resolution public ? known dependencies ?	high-level data product: spectral data - format (xspect/root/...) ?	
	timeline: observational history : which objects ? when? eff. exposure? result published ?	high-level data product: spectral fits - fit-function flexibility ? which uncertainties ?	
	schedules: which objects ? when ? result will be made available when ?	intent of matching contemporaneous analysis ? when ? how ?	
		lc: minimal timescale ? flexibility in rebinning ?	

## Conferences (presentations and proceedings)

[Towards a Network of Atmospheric Cherenkov Detectors VII, April 2005, Paris](#)

## Meetings

[Friday Nov 4 2005: GLAST, GRB and TeV observations](#)

[Saturday Mar 4 2006: F2F meeting](#)

[Wednesday, June 14, 2006 \(9am Pacific\): VRVS meeting in Vela](#)

## Whiteboard

[A place to throw ideas](#)