LHAASO Status

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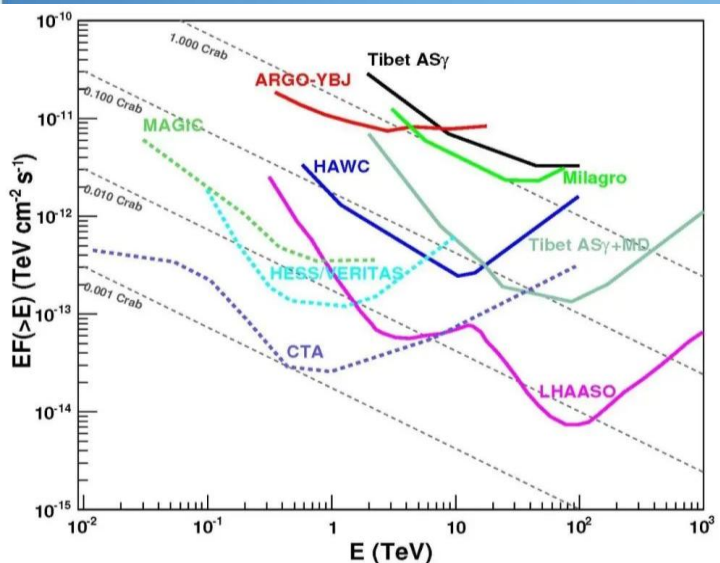
NAOC, CAS

Hybrid Detection of EASs by LHAASO

CATCHING RAYS

China's new observatory will intercept ultra-high-energy γ-ray particles and cosmic rays.

Courtesy: Nature

~25,000 m

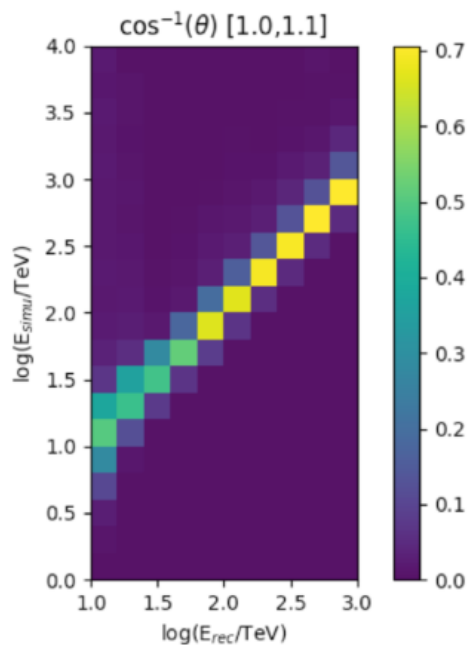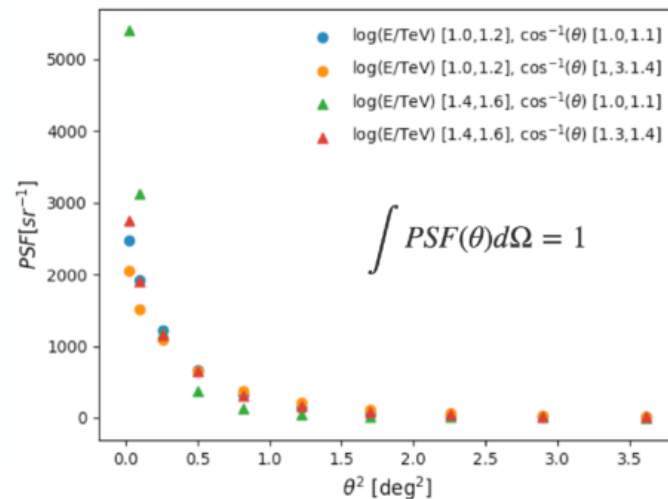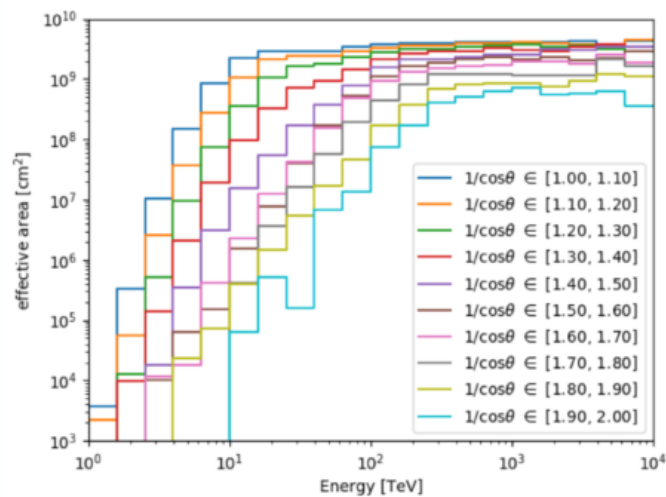80,000-m² surface-water Cherenkov detector

1,171 underground water Cherenkov tanks

4,400 m

Tibet ASγ

ARGO-YBJ

MAGIC

HAWC

Milagro

Tibet ASγ+MD

HESS/VERITAS

CTA

LHAASO

1.000 Crab

0.100 Crab

0.010 Crab

0.001 Crab

$EF(>E)$ (TeV cm^{-2} s^{-1})

E (TeV)

LHAASO data

- ROOT format

- Properties of reconstructed events depend strongly on nHit

- PSF and G/H separation threshold change with nHit

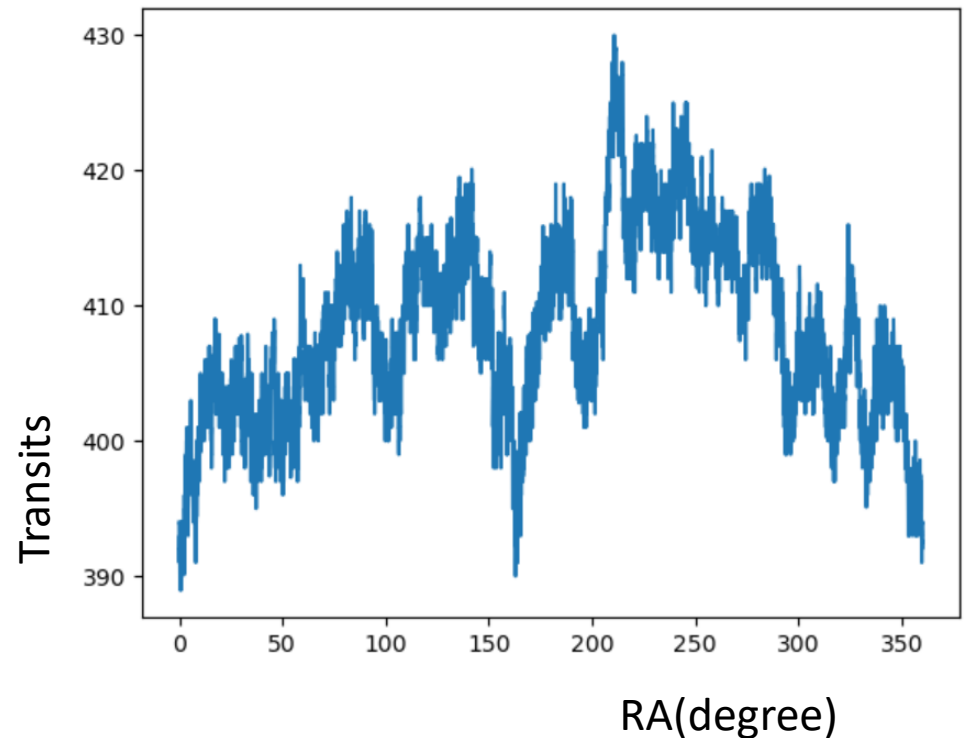- Energy dispersion change with nHit and zenith

KM2A IRFs from Simulation

Event list and live time

Event ID	RA	DEC	nHit	Time	Pincness
1	212.47	6.66	405	59760.65214	0.84
2	224.51	12.19	181	59760.652215	0.965

Runno	Tstart	Tend
146458	59760.000135	59760.0006217
….		

RA(degree)

How to fill GADF and run with gammapy?