

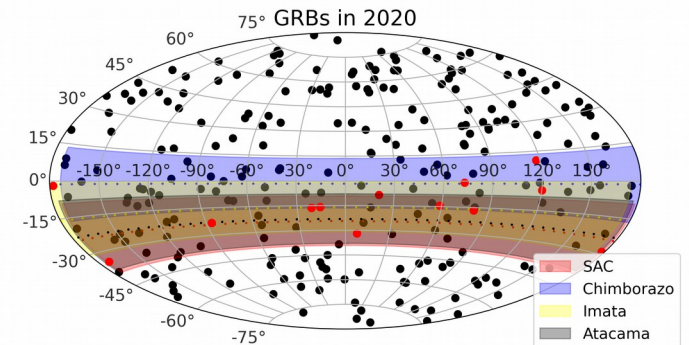
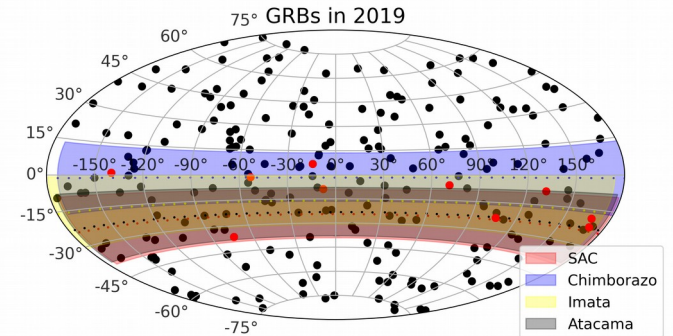
The Latin American Giant Observatory (LAGO) capabilities for detecting Gamma Ray Bursts

Motivation

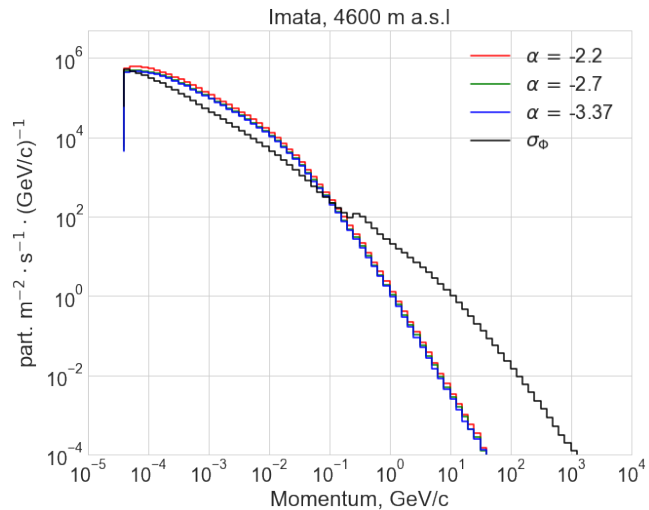
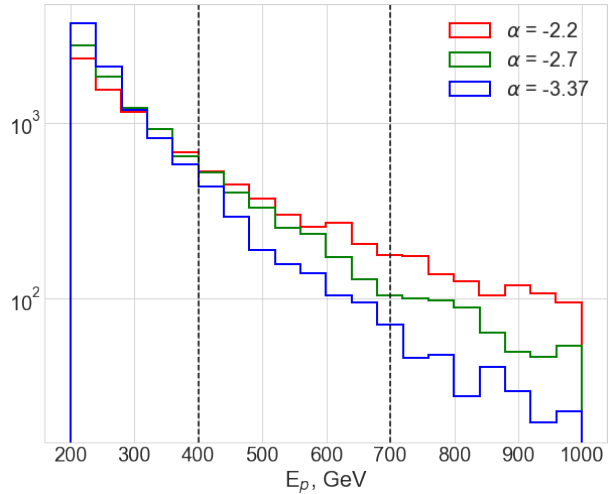
- Recent GRB detection by MAGIC and HESS
- LAGO facilities at high altitude sites.

Country	Site	Altitude [m a.s.l.]	Latitude [deg]	Longitude [deg]
Argentina	SAC	4500	24.23 S	66.32 W
Chile	Atacama	5100	23 S	67.76 W
Ecuador	Chimborazo	5000	1.47 S	78.82 W
Perú	Imata	4600	15.84 S	71.10 W

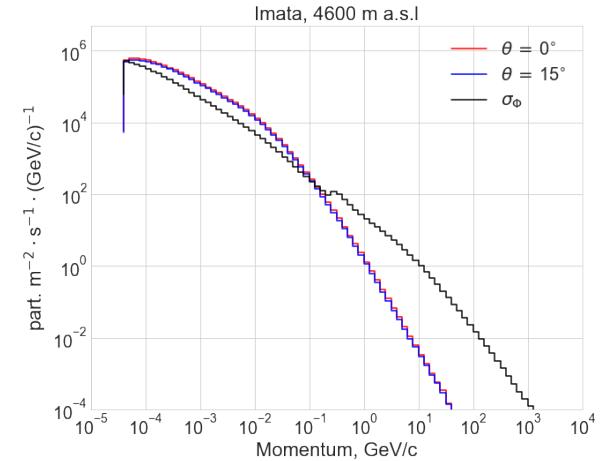
FOV



GRB Model



Background-Signal ratio



- We revisited the detection capabilities of the LAGO network at high altitude sites.
- Study high energy component of the GRBs photons with energy up to ≤ 1 TeV.
- New EAS developments, including new high and low energy interaction models and realistic atmospheric profiles.

<https://pos.sissa.it/395/929/>