

run 2818, event 5031

time stamp: 959921120 s 29744714 ns

Trigger: 'Physics - Int or L/R trigger', 'Shower Candidate'

in Los Morados mirror 6 (in DAQ: 1 2 3 4 5 6)

geometry: hybrid, station 768 (ToT), showerPlaneDistance = 437 m

$(\theta, \phi) = (53.0 \pm 0.3, 266.1 \pm 0.8)$ deg

$(x, y) = (15.46 \pm 0.04, -6.74 \pm 0.05)$ km

$R_p = 6.21 \pm 0.03$ km

profile: 4-parameter Gaisser-Hillas (type: USP)

$E = (1.90 \pm 0.15 \pm 0.11) \times 10^{18}$ eV

$X_{\max} = 584 \pm 31$ g/cm²

$(dE/dX)_{\max} = 2.73 \pm 0.13$ PeV/(g/cm²)

$(\lambda, X_0, L) = (70, -208, 235 \pm 11)$ g/cm², $R = 0.30 \pm 0.05$

Cherenkov-fraction = 21%, mva=24 deg.

databases:

Mie attenuation: measured (h<6.9 km, VAOD at 3km: 0.01)

LIDAR: h(cloud)=100.0 km, 0%; CloudCam: max(ζ)=(100/0)% (elev>5.5[^]); CloudMap: no data

molecular profile: GDAS; time correction: good