

run 2852, event 2676

time stamp: 962330637 s 153261586 ns

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

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

geometry: hybrid, station 783 (ToT), showerPlaneDistance = 470 m

$(\theta, \phi) = (37.5 \pm 0.5, 105.0 \pm 0.8)$ deg

$(x, y) = (15.65 \pm 0.06, -0.94 \pm 0.04)$ km

$R_p = 6.34 \pm 0.03$ km

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

$E = (1.64 \pm 0.10 \pm 0.09) \times 10^{18}$ eV

$X_{\max} = 1000 \pm 16$ g/cm²

$(dE/dX)_{\max} = 2.38 \pm 0.06$ PeV/(g/cm²)

$(\lambda, X_0, L) = (49, -125, 234 \pm 10)$ g/cm², $R = 0.21 \pm 0.04$

Cherenkov-fraction = 12%, mva=31 deg.

databases:

Mie attenuation: measured (h<16.3 km, VAOD at 3km: 0.04)

LIDAR: no data ; CloudCam: max(ζ)=(20/0)% (elev>5.5[^]); CloudMap: max=0%

molecular profile: GDAS; time correction: good