

run 5245, event 1893

time stamp: 1077592515 s 643427734 ns

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

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

geometry: hybrid, station 634 (ToT), showerPlaneDistance = 365 m

$(\theta, \phi) = (41.2 \pm 0.7, 194.4 \pm 0.6)$ deg

$(x, y) = (-26.32 \pm 0.05, 4.30 \pm 0.03)$ km

$R_p = 11.93 \pm 0.03$ km

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

$E = (1.96 \pm 0.14 \pm 0.11) \times 10^{18}$ eV

$X_{\max} = 1027 \pm 23$ g/cm²

$(dE/dX)_{\max} = 2.82 \pm 0.14$ PeV/(g/cm²)

$(\lambda, X_0, L) = (51, -66, 237 \pm 9)$ g/cm², $R = 0.22 \pm 0.05$

Cherenkov-fraction = 7%, mva=70 deg.

databases:

Mie attenuation: measured (h<8.0 km, VAOD at 3km: 0.04)

LIDAR: h(cloud)=5.0 km, 47%; CloudCam: max(ζ)=(80/80)% (elev>5.5[^]); CloudMap: no data

molecular profile: GDAS; time correction: good