

run 3832, event 1765

time stamp: 982734446 s 163821960 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 640 (ToT), showerPlaneDistance = 170 m

$(\theta, \phi) = (51.5 \pm 0.5, 236.3 \pm 0.5)$ deg

$(x, y) = (-25.94 \pm 0.05, 6.81 \pm 0.05)$ km

$R_p = 9.80 \pm 0.03$ km

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

$E = (2.14 \pm 0.09 \pm 0.12) \times 10^{18}$ eV

$X_{\max} = 1012 \pm 20$ g/cm²

$(dE/dX)_{\max} = 3.08 \pm 0.09$ PeV/(g/cm²)

$(\lambda, X_0, L) = (56, 19, 237 \pm 9)$ g/cm², $R = 0.24 \pm 0.05$

Cherenkov-fraction = 12%, mva=37 deg.

databases:

Mie attenuation: measured (h<16.4 km, VAOD at 3km: 0.03)

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

molecular profile: GDAS; time correction: good