

run 4286, event 4127

time stamp: 1009347063 s 997835288 ns

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

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

geometry: hybrid, station 919 (ToT), showerPlaneDistance = 37 m

$(\theta, \phi) = (50.2 \pm 0.9, 328.8 \pm 0.7)$ deg

$(x, y) = (-20.68 \pm 0.07, 18.77 \pm 0.07)$ km

$R_p = 10.33 \pm 0.07$ km

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

$E = (1.13 \pm 0.06 \pm 0.06) \times 10^{18}$ eV

$X_{\max} = 1031 \pm 33$ g/cm²

$(dE/dX)_{\max} = 1.62 \pm 0.06$ PeV/(g/cm²)

$(\lambda, X_0, L) = (60, 115, 234 \pm 10)$ g/cm², $R = 0.26 \pm 0.05$

Cherenkov-fraction = 18%, mva=39 deg.

databases:

Mie attenuation: measured (h<16.4 km, VAOD at 3km: 0.08)

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

molecular profile: GDAS; time correction: good