

run 1255, event 534

time stamp: 811905104 s 167891448 ns

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

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

geometry: hybrid, station 588 (ToT), showerPlaneDistance = 728 m

$(\theta, \phi) = (28.7 \pm 0.3, 123.4 \pm 1.5)$ deg

$(x, y) = (-23.11 \pm 0.04, 6.19 \pm 0.05)$ km

$R_p = 10.87 \pm 0.03$ km

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

$E = (1.14 \pm 0.06 \pm 0.06) \times 10^{18}$ eV

$X_{\max} = 575 \pm 21$ g/cm²

$(dE/dX)_{\max} = 1.71 \pm 0.05$ PeV/(g/cm²)

$(\lambda, X_0, L) = (57, -315, 225 \pm 9)$ g/cm², $R = 0.25 \pm 0.04$

Cherenkov-fraction = 8%, mva=88 deg.

databases:

Mie attenuation: measured (h<2.4 km, VAOD at 3km: 0.05)

LIDAR: no data ; CloudCam: max(ζ)=(60/60)% (elev>5.5[^]); CloudMap: max=20%

molecular profile: GDAS; time correction: good