

run 131, event 556

time stamp: 868751195 s 532527218 ns

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

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

geometry: hybrid, station 1275 (ToT), showerPlaneDistance = 581 m

$(\theta, \phi) = (42.4 \pm 0.3, 123.4 \pm 0.6)$ deg

$(x, y) = (-2.58 \pm 0.05, 25.34 \pm 0.04)$ km

$R_p = 10.92 \pm 0.03$ km

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

$E = (2.60 \pm 0.19 \pm 0.15) \times 10^{18}$ eV

$X_{\max} = 560 \pm 27$ g/cm²

$(dE/dX)_{\max} = 3.74 \pm 0.18$ PeV/(g/cm²)

$(\lambda, X_0, L) = (70, -242, 237 \pm 10)$ g/cm², $R = 0.30 \pm 0.05$

Cherenkov-fraction = 15%, mva=65 deg.

databases:

Mie attenuation: measured (h<6.0 km, VAOD at 3km: 0.05)

LIDAR: no data ; CloudCam: no data; CloudMap: max=60%

molecular profile: GDAS; time correction: good