

run 3381, event 6714

time stamp: 1139205115 s 332856113 ns

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

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

geometry: hybrid, station 1413 (ToT), showerPlaneDistance = 1028 m

$(\theta, \phi) = (58.3 \pm 0.3, 9.0 \pm 0.9)$ deg

$(x, y) = (0.68 \pm 0.16, 18.90 \pm 0.05)$ km

$R_p = 15.56 \pm 0.03$ km

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

$E = (4.64 \pm 0.21 \pm 0.27) \times 10^{18}$ eV

$X_{\max} = 500 \pm 19$ g/cm²

$(dE/dX)_{\max} = 6.53 \pm 0.15$ PeV/(g/cm²)

$(\lambda, X_0, L) = (67, -383, 243 \pm 9)$ g/cm², $R = 0.27 \pm 0.05$

Cherenkov-fraction = 6%, mva=42 deg.

databases:

Mie attenuation: measured (h<3.4 km, VAOD at 3km: 0.06)

LIDAR: no data ; CloudCam: max(ζ)=(100/100)% (elev>5.5[^]); CloudMap: max=0%

molecular profile: GDAS; time correction: good