

run 5299, event 2334

time stamp: 1100143835 s 777056917 ns

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

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

geometry: hybrid, station 350 (ToT), showerPlaneDistance = 575 m

$(\theta, \phi) = (49.9 \pm 0.7, 87.8 \pm 0.6)$ deg

$(x, y) = (-2.96 \pm 0.04, -27.20 \pm 0.08)$ km

$R_p = 15.16 \pm 0.04$ km

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

$E = (2.17 \pm 0.11 \pm 0.13) \times 10^{18}$ eV

$X_{\max} = 1002 \pm 28$ g/cm²

$(dE/dX)_{\max} = 3.12 \pm 0.12$ PeV/(g/cm²)

$(\lambda, X_0, L) = (58, 23, 237 \pm 10)$ g/cm², $R = 0.24 \pm 0.05$

Cherenkov-fraction = 11%, mva=58 deg.

databases:

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

LIDAR: no data ; CloudCam: no data; CloudMap: max=40%

molecular profile: GDAS; time correction: good