run 2357, event 269

time stamp: 891649879 s 813774952 ns

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

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

geometry: hybrid, station 143 (ToT), showerPlaneDistance = 551 m

$(\theta, \phi) = (50.3 \pm 0.6, 155.9 \pm 0.5)$ deg

$(x, y) = (-8.62 \pm 0.07, -11.97 \pm 0.05)$ km

$R_p = 17.95 \pm 0.03$ km

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

$E = (4.20 \pm 0.20 \pm 0.27) \times 10^{18}$ eV

$X_{max} = 1009 \pm 24$ g/cm^2

$(dE/dX)_{max} = 5.87 \pm 0.19$ PeV/(g/cm^2)

$(\lambda, X_0, L) = (50, -200, 245 \pm 9)$ g/cm^2, $R = 0.20 \pm 0.05$

Cherenkov-fraction = 8%, mva=62 deg.

databases:

Mie attenuation: measured (h<12.3 km, VAOD at 3km: 0.02)

LIDAR: h(cloud)=7.7 km, 19%; CloudCam: no data; CloudMap: no data

molecular profile: GDAS; time correction: good