

run 1970, event 6947

time stamp: 1014537079 s 844737065 ns

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

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

geometry: hybrid, station 1136 (ToT), showerPlaneDistance = 775 m

$(\theta, \phi) = (51.7 \pm 0.4, 288.0 \pm 0.5)$ deg

$(x, y) = (11.73 \pm 0.04, 33.96 \pm 0.03)$ km

$R_p = 7.76 \pm 0.02$ km

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

$E = (1.22 \pm 0.05 \pm 0.06) \times 10^{18}$ eV

$X_{\max} = 1043 \pm 16$ g/cm²

$(dE/dX)_{\max} = 1.69 \pm 0.04$ PeV/(g/cm²)

$(\lambda, X_0, L) = (43, -315, 243 \pm 8)$ g/cm², $R = 0.18 \pm 0.05$

Cherenkov-fraction = 14%, mva=28 deg.

databases:

Mie attenuation: measured (h<16.3 km, VAOD at 3km: 0.03)

LIDAR: no data ; CloudCam: no data; CloudMap: max=0%

molecular profile: GDAS; time correction: good