

run 1910, event 5093

time stamp: 896950200 s 62101438 ns

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

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

geometry: hybrid, station 762 (ToT), showerPlaneDistance = 676 m

$(\theta, \phi) = (46.3 \pm 0.4, 192.3 \pm 0.5)$ deg

$(x, y) = (16.74 \pm 0.03, -0.31 \pm 0.03)$ km

$R_p = 5.95 \pm 0.02$ km

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

$E = (1.09 \pm 0.05 \pm 0.06) \times 10^{18}$ eV

$X_{\max} = 1018 \pm 13$ g/cm²

$(dE/dX)_{\max} = 1.56 \pm 0.03$ PeV/(g/cm²)

$(\lambda, X_0, L) = (54, -7, 235 \pm 8)$ g/cm², $R = 0.23 \pm 0.04$

Cherenkov-fraction = 12%, mva=27 deg.

databases:

Mie attenuation: measured (h<16.4 km, VAOD at 3km: 0.00)

LIDAR: h(cloud)=100.0 km, 0%; CloudCam: no data; CloudMap: max=20%

molecular profile: GDAS; time correction: good