

**run 3597, event 2463**

time stamp: 1157525061 s 132756041 ns

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

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

**geometry: hybrid, station 1411 (ToT), showerPlaneDistance = 1240 m**

$(\theta, \phi) = (41.7 \pm 0.3, 70.6 \pm 0.9)$  deg

$(x, y) = (4.08 \pm 0.08, 18.38 \pm 0.03)$  km

$R_p = 12.93 \pm 0.03$  km

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

$E = (4.04 \pm 0.23 \pm 0.24) \times 10^{18}$  eV

$X_{\max} = 577 \pm 20$  g/cm<sup>2</sup>

$(dE/dX)_{\max} = 6.12 \pm 0.15$  PeV/(g/cm<sup>2</sup>)

$(\lambda, X_0, L) = (55, -359, 226 \pm 10)$  g/cm<sup>2</sup>,  $R = 0.24 \pm 0.05$

Cherenkov-fraction = 9%, mva=98 deg.

**databases:**

Mie attenuation: measured (h<2.6 km, VAOD at 3km: 0.05)

LIDAR: no data ; CloudCam: max( $\zeta$ )=(100/100)% (elev>5.5<sup>^</sup>); CloudMap: max=60%

molecular profile: GDAS; time correction: good