

**run 3833, event 2255**

time stamp: 982812077 s 29621510 ns

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

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

**geometry: hybrid, station 1724 (ToT), showerPlaneDistance = 707 m**

$(\theta, \phi) = (47.9 \pm 0.4, 178.4 \pm 1.0)$  deg

$(x, y) = (-16.68 \pm 0.08, 6.28 \pm 0.11)$  km

$R_p = 13.14 \pm 0.03$  km

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

$E = (1.99 \pm 0.16 \pm 0.11) \times 10^{18}$  eV

$X_{\max} = 587 \pm 33$  g/cm<sup>2</sup>

$(dE/dX)_{\max} = 2.97 \pm 0.15$  PeV/(g/cm<sup>2</sup>)

$(\lambda, X_0, L) = (58, -314, 228 \pm 12)$  g/cm<sup>2</sup>,  $R = 0.25 \pm 0.06$

Cherenkov-fraction = 7%, mva=96 deg.

**databases:**

Mie attenuation: measured (h<16.4 km, VAOD at 3km: 0.03)

LIDAR: h(cloud)=100.0 km, 0%; CloudCam: max( $\zeta$ )=(0/0)% (elev>5.5<sup>^</sup>); CloudMap: no data

molecular profile: GDAS; time correction: good