

## run 1084, event 5167

time stamp: 934780214 s 775872605 ns

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

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

**geometry: hybrid, station 1086 (ToT), showerPlaneDistance = 510 m**

$(\theta, \phi) = (39.2 \pm 0.6, 9.9 \pm 1.3)$  deg

$(x, y) = (-5.71 \pm 0.08, 25.43 \pm 0.08)$  km

$R_p = 11.35 \pm 0.03$  km

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

$E = (1.08 \pm 0.10 \pm 0.06) \times 10^{18}$  eV

$X_{\max} = 565 \pm 45$  g/cm<sup>2</sup>

$(dE/dX)_{\max} = 1.59 \pm 0.11$  PeV/(g/cm<sup>2</sup>)

$(\lambda, X_0, L) = (59, -310, 227 \pm 11)$  g/cm<sup>2</sup>,  $R = 0.26 \pm 0.05$

Cherenkov-fraction = 8%, mva=88 deg.

## databases:

Mie attenuation: measured (h<2.7 km, VAOD at 3km: 0.07)

LIDAR: h(cloud)=100.0 km, 0%; CloudCam: no data; CloudMap: max=60%

molecular profile: GDAS; time correction: good