

**run 3731, event 5682**

time stamp: 970464604 s 227241442 ns

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

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

**geometry: hybrid, station 1071 (ToT), showerPlaneDistance = 591 m**

$(\theta, \phi) = (51.9 \pm 0.7, 228.7 \pm 0.5)$  deg

$(x, y) = (-26.95 \pm 0.07, 1.40 \pm 0.06)$  km

$R_p = 13.47 \pm 0.05$  km

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

$E = (3.43 \pm 0.16 \pm 0.20) \times 10^{18}$  eV

$X_{\max} = 1027 \pm 30$  g/cm<sup>2</sup>

$(dE/dX)_{\max} = 4.84 \pm 0.14$  PeV/(g/cm<sup>2</sup>)

$(\lambda, X_0, L) = (60, 52, 242 \pm 10)$  g/cm<sup>2</sup>,  $R = 0.25 \pm 0.06$

Cherenkov-fraction = 13%, mva=46 deg.

**databases:**

Mie attenuation: measured (h<2.4 km, VAOD at 3km: 0.04)

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