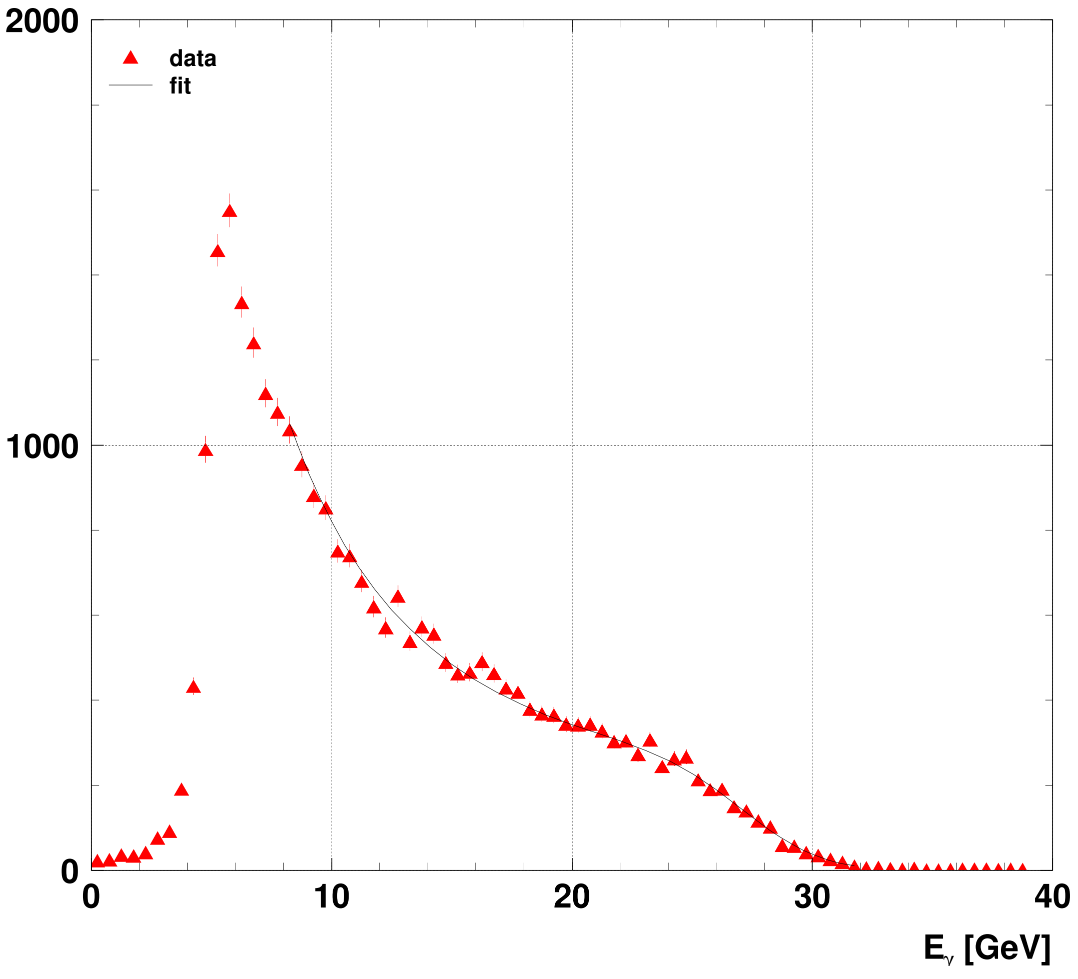
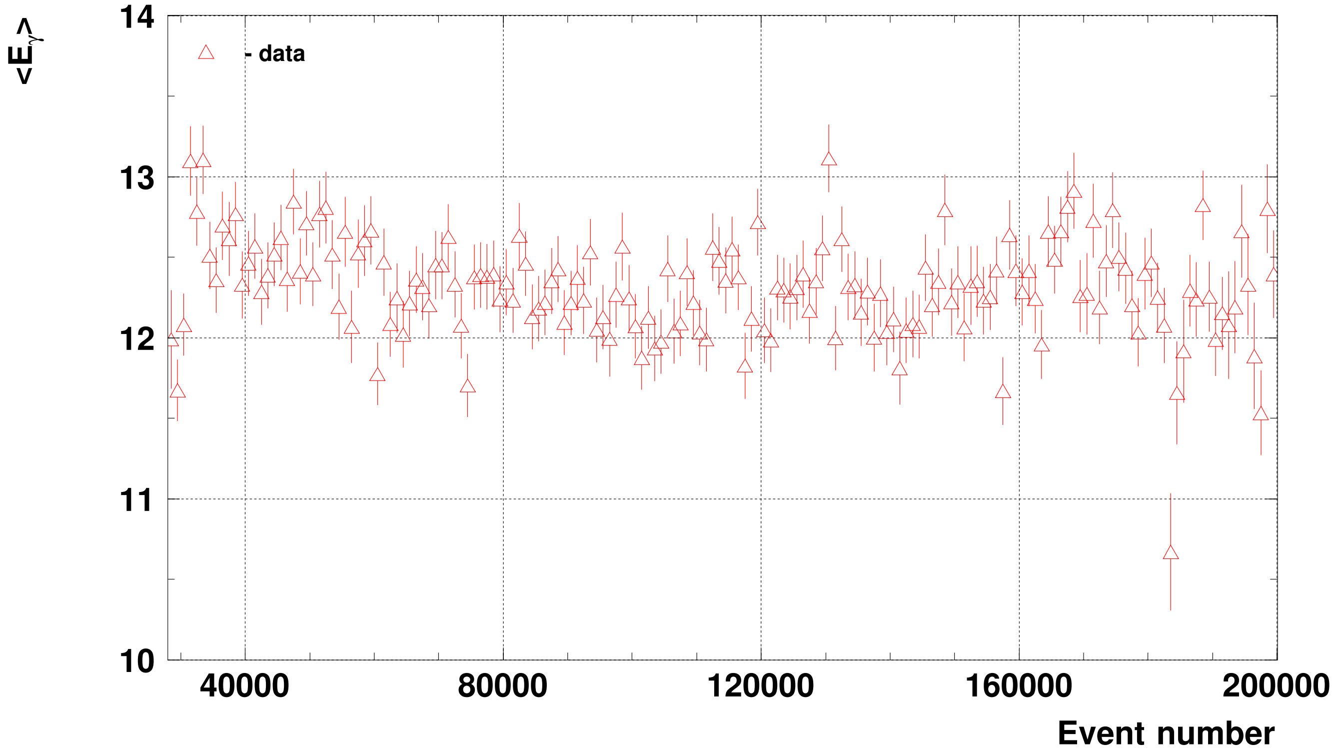
# PD calibration procedure

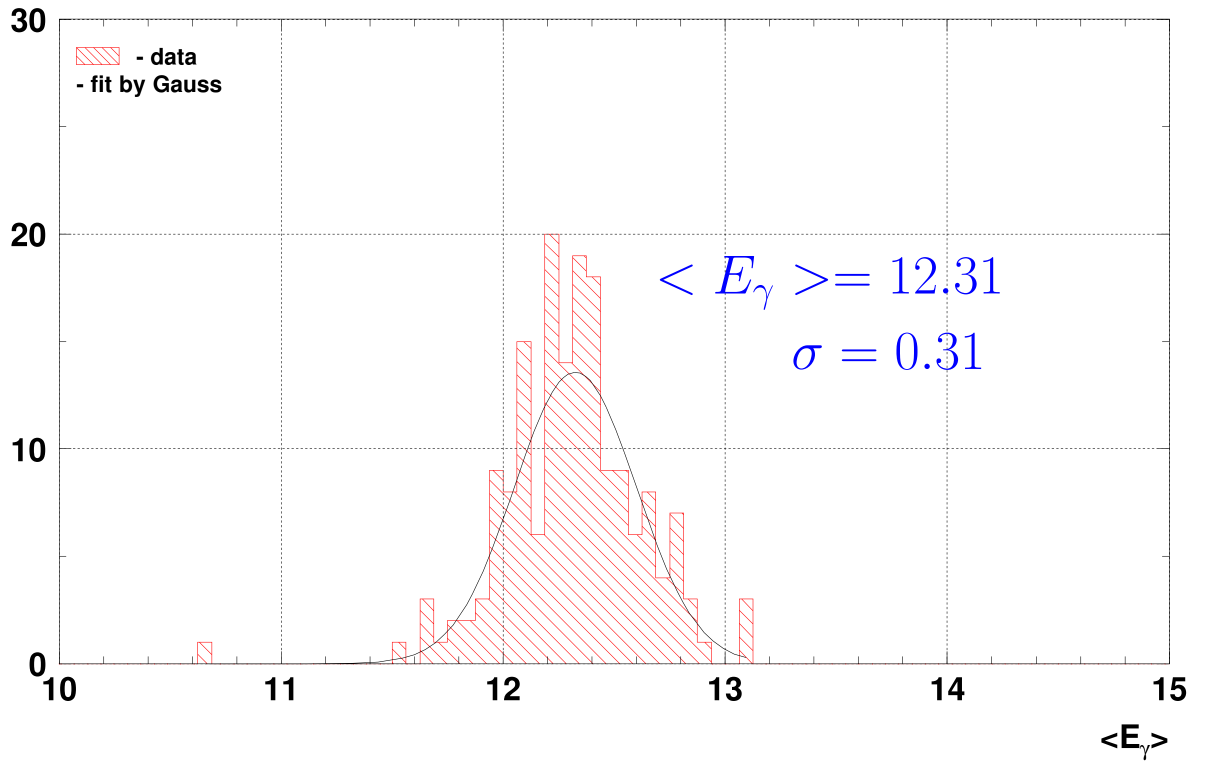
- Using special PD scan data $\Rightarrow$ equalize individual channel response
- Final determination of energy scale from the fit PD energy spectrum by the Bethe-Heitler




As example I considered special $\rho^o$ - meson run data collected in February 2003
(H1runs 340212-340972, 9.02.-11.02.2003)

- Stability Photon Detector response and calibration procedure is illustrated on the next picture



For the chosen sample the additional fit of photon spectrum is done and it gives $\Delta E = 0.110 GeV$ ( 0.4 $\%$ ) energy error for the high edge of the photon spectrum.

I supppose that this error is also valid $E_\gamma$ = 10 $GeV$.

And such uncertainty in the energy scale gives $\sim 1.4\%$ in the number of events behind threshold .