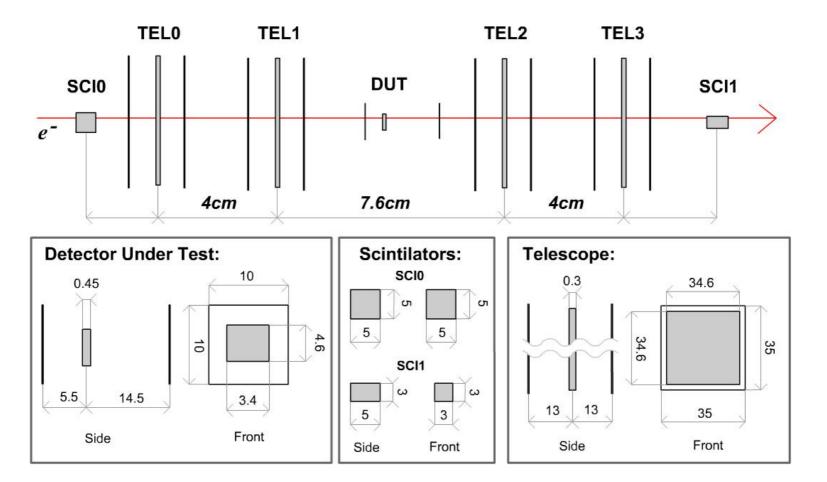
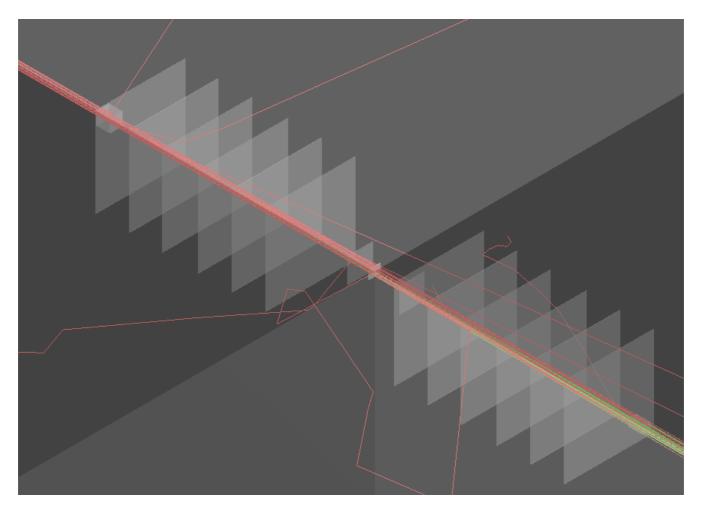
Results of Geant 4 simulations DEPFET Beam Test, January 2006

Daniel Scheirich
Peter Kodys
Zdenek Dolezal
Pavel Reznicek

Geometry

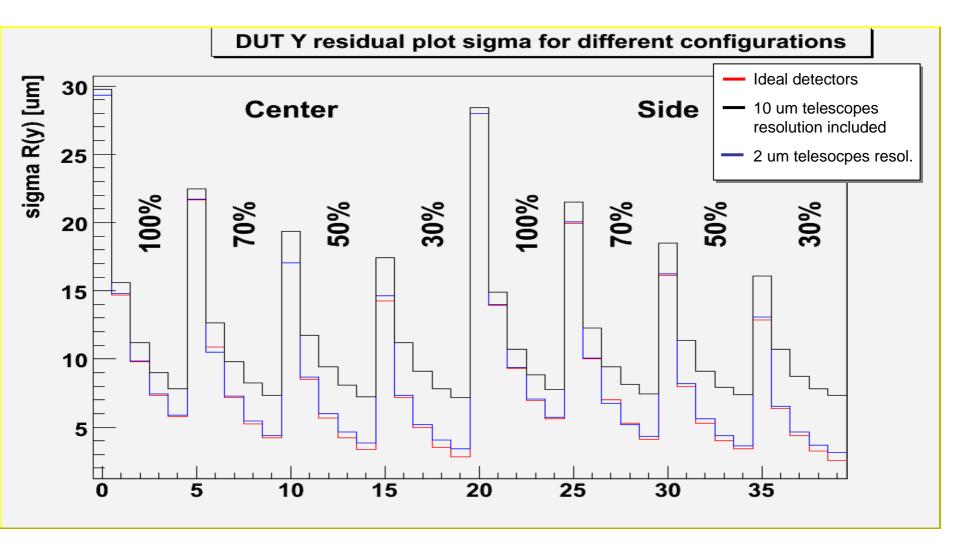


Geometry

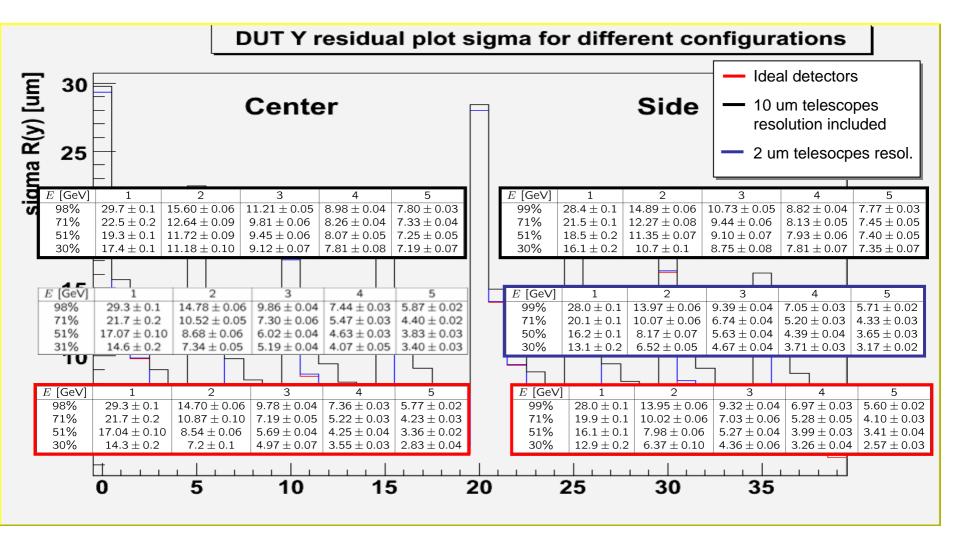


IPNP, Charles University, Prague

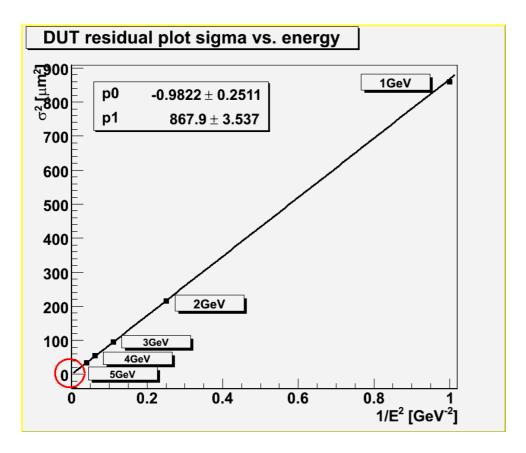
Residual distributions



Residual distributions



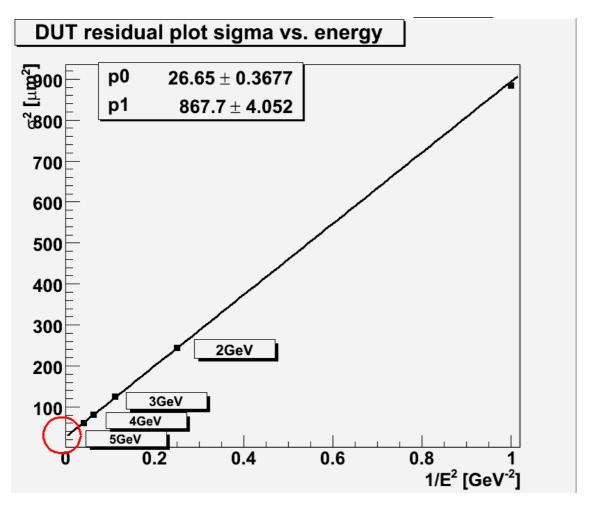
Infinite energy extrapolation



- Ideal detectors
- Fitted line should go to 0

$$\theta_0 = 13.6 \mathrm{MeV} \, z \sqrt{\frac{x}{X_\theta}} \left(1 + 0.038 \, \ln \left(\frac{x}{X_\theta}\right)\right) \beta^{-1} c^{-1} p^{-1}$$

Infinite energy extrapolation



- The resolution of telescopes is 10µm
- The residual distribution for an unscattered particle is ca. 5 µm

Sigma vs. χ^2 cut for 5 GeV el.

