

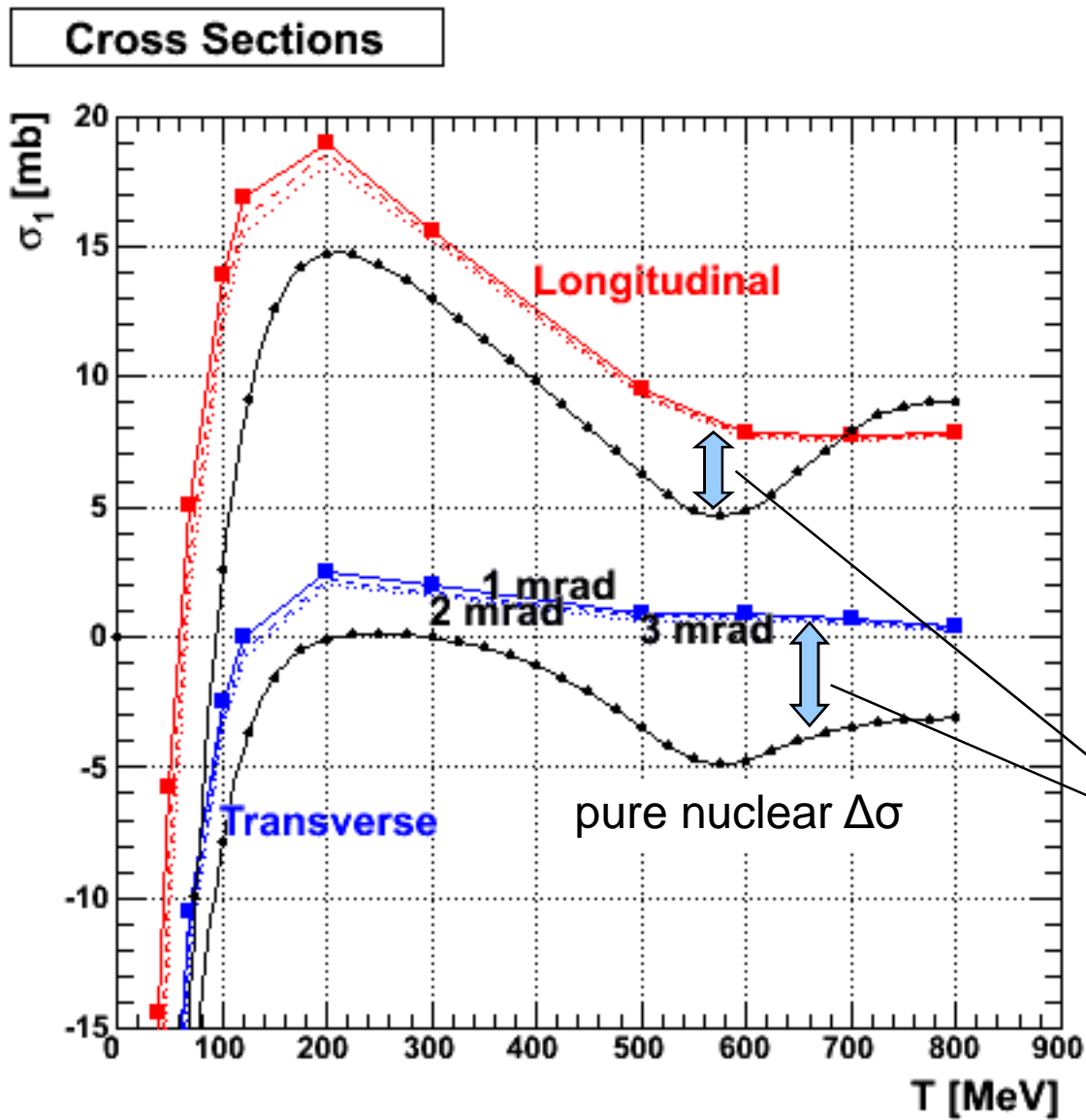
Interpretation of spin-filtering experiments

Illustration

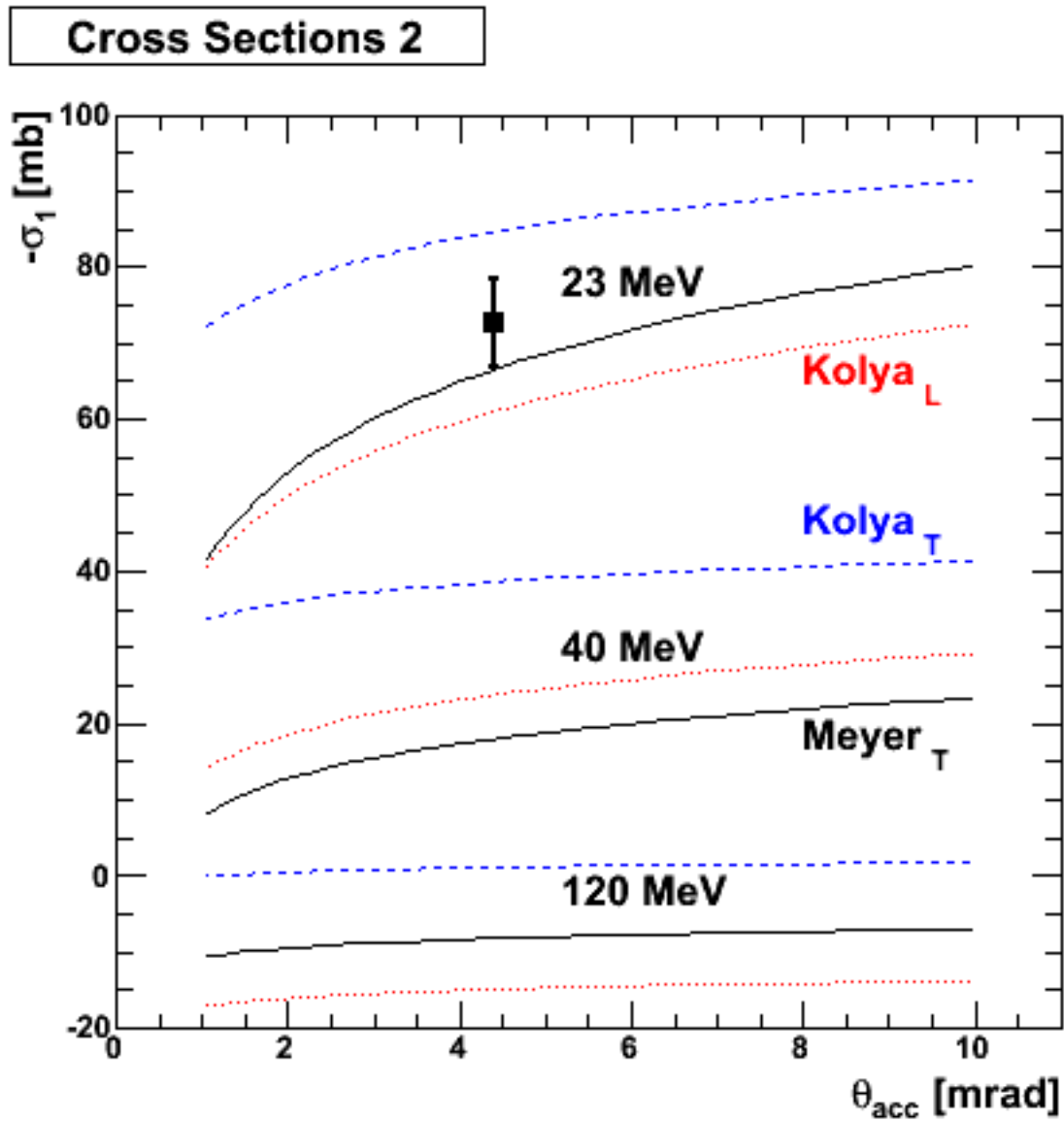
Polarisation Build-up:

$$P(z) = \frac{-Q(\sigma_1 + \Delta\sigma_1)\tanh(Q\sigma_3 Nz)}{Q\sigma_3 + 0.5\Delta\sigma_0\tanh(Q\sigma_3 Nz)}$$

$$Q\sigma_3 = \sqrt{Q^2\sigma_1(\sigma_1 + \Delta\sigma_1) + 0.25\Delta\sigma_0^2}$$

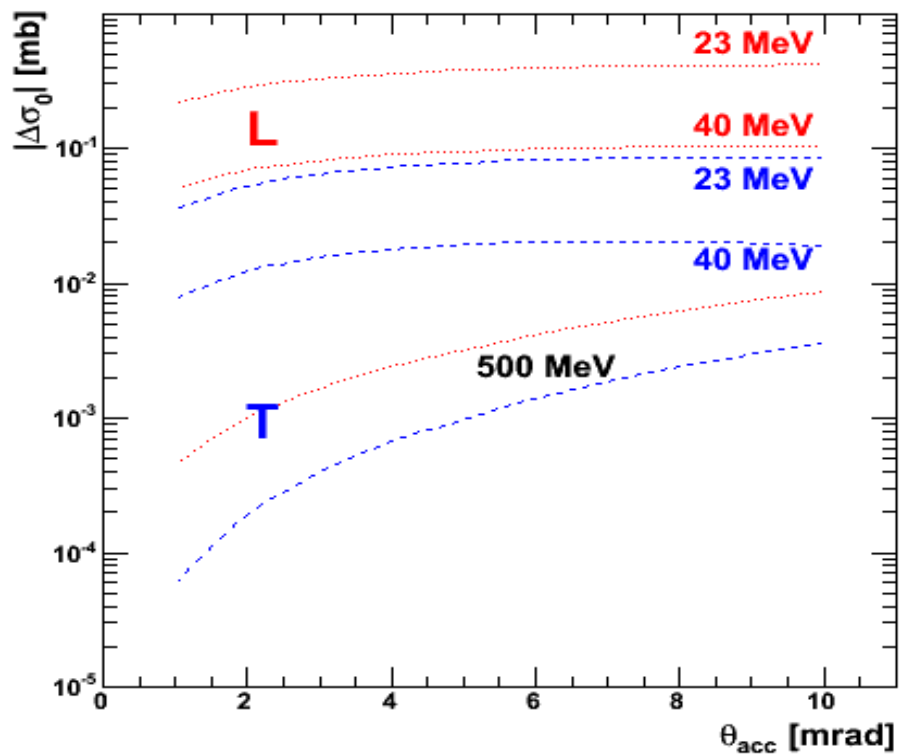


CNI effect:
 departure from pure
 nuclear interaction



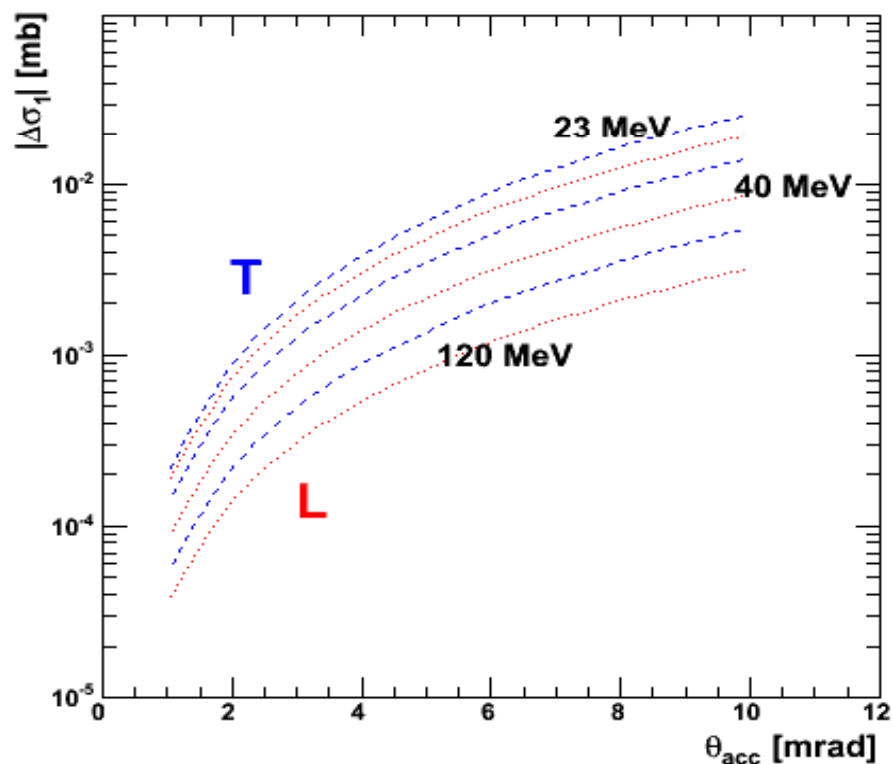
CNI effect:
sensitivity to
acceptance angle

Cross Sections 3

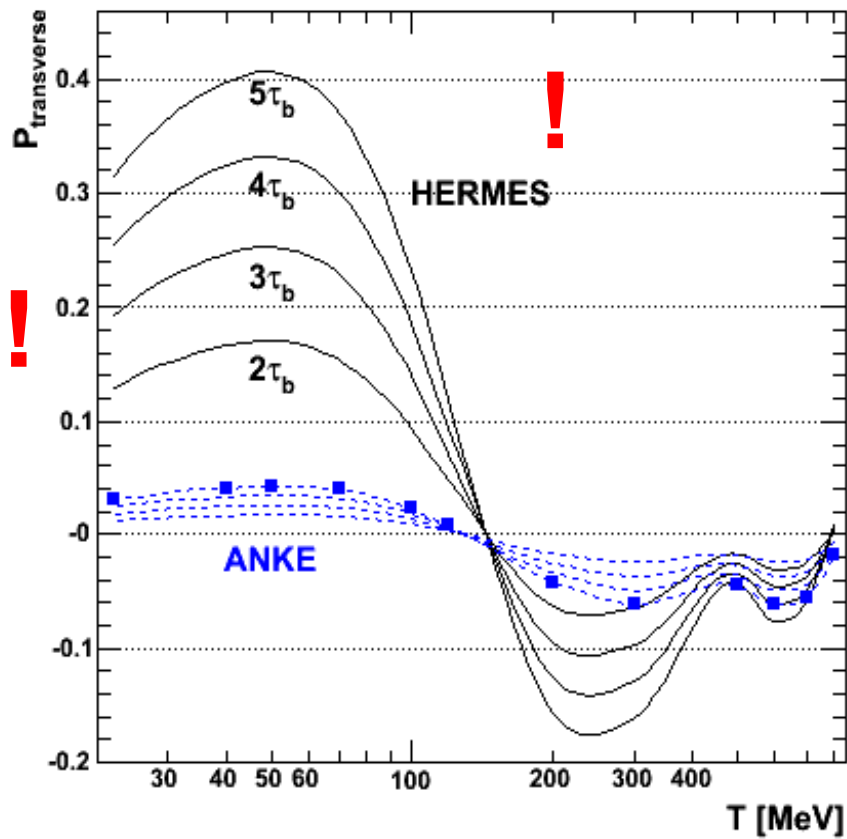


$$\Delta\sigma_{0,1} \ll \sigma_1(>\Theta_{acc})$$

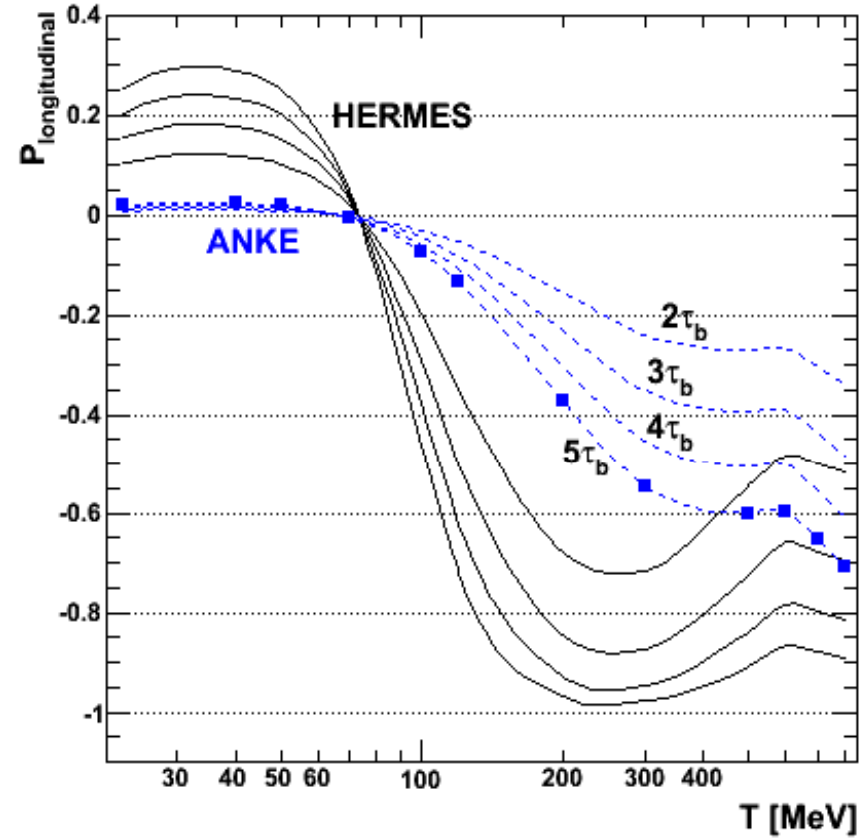
Cross Sections 4



ANKE/HERMES Polarisation (2 mrad)



ANKE/HERMES Polarisation (2 mrad)



- Sizeable build-up
- New interaction point has to be arranged