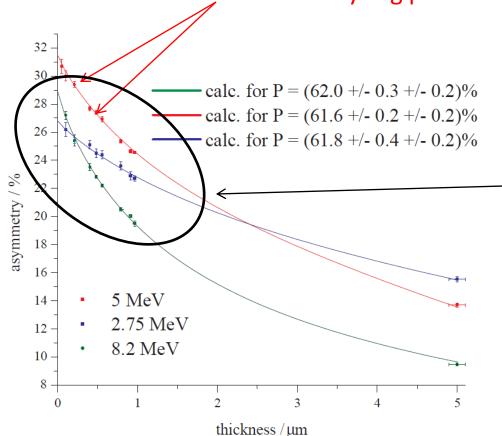


Effective analyzing power depends on foils thickness



In late 90's Mott was calibrated and with help of Charles Horowitz a model-dependency was successfully tested.

The results and analysis were not well documented or published in a peer reviewed journal.

We would like to repeat the calibration & modeldependent analysis, ensuring sound theoretical treatment and exploring improvements in simulation

Our goal is to demonstrate high precision ~1%.

double- (large, small) double- (small, large) single-

Theory Collaboration or Support

Input on proposed model and simulation strategy

⇒ (multiple-scattering, energy loss, 90 deg scattering)

Provide and develop (σ, S, T, U) code/tables

⇒ (Corrections, Geant4 implementation)

Input on level of precision, size of uncertainty in model

⇒ (soundness or model, approximations, unknowns?)