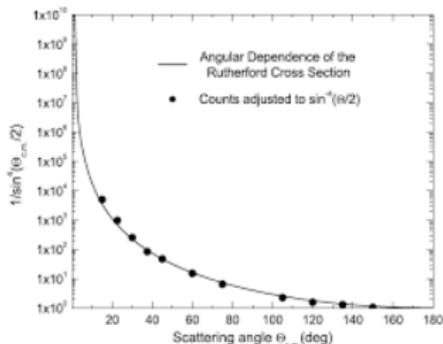
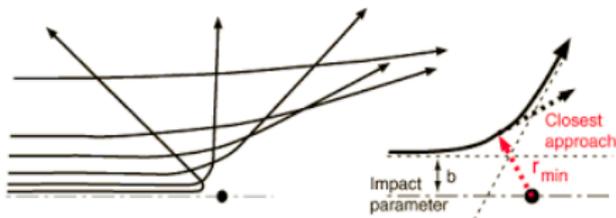
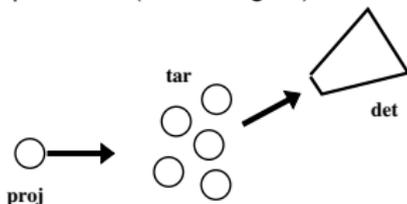


- ▶ Rutherford scattering:  $p + {}^{197}\text{Au} \rightarrow p + {}^{197}\text{Au}$   
 $p({}^{197}\text{Au}, {}^{197}\text{Au})p$
- ▶ target composition: gold, carbon



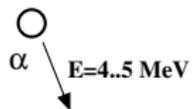
- ▶ planning (signal, calibration, codes)
- ▶ experiment (DAQ, angles)



- ▶ analysis (calculations, uncertainties)
- ▶ presentation



**Source**

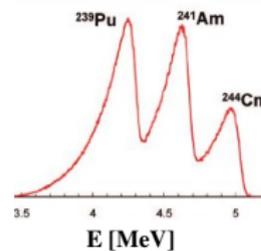


**Detector**



**Electronics**

**Computer**

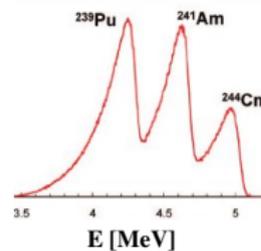
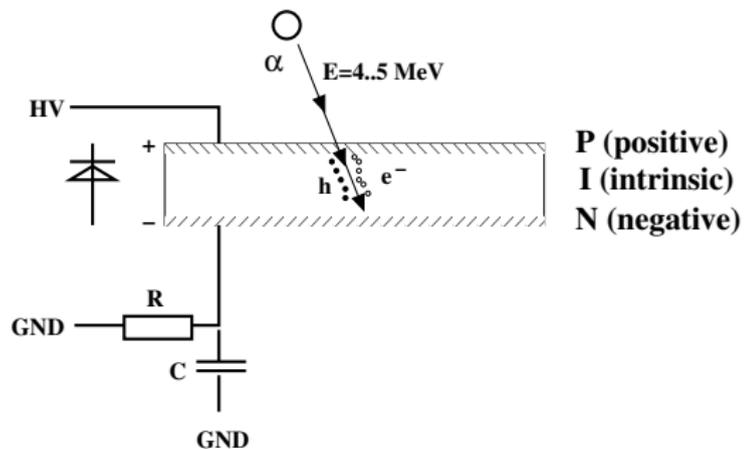


Source

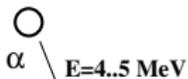
Detector

Electronics

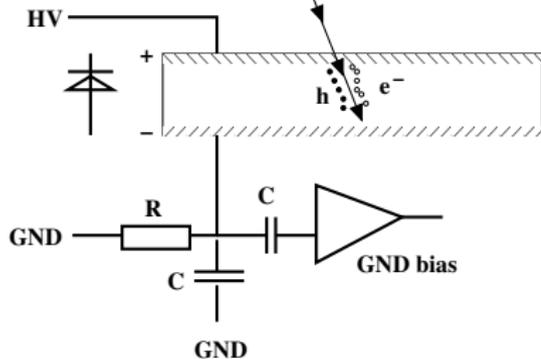
Computer



**Source**



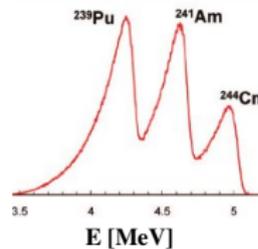
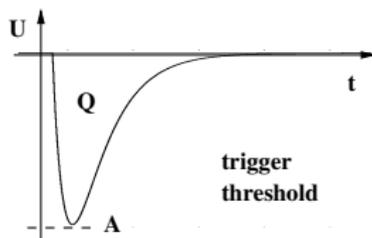
**Detector**



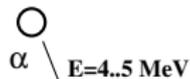
**P (positive)**  
**I (intrinsic)**  
**N (negative)**

**Electronics**

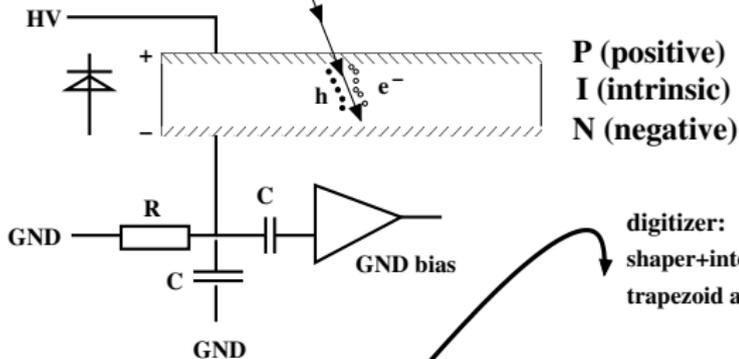
**Computer Scope**



**Source**



**Detector**



**Electronics**

digitizer:  
shaper+integrator  
trapezoid algorithm

**Computer Scope**

