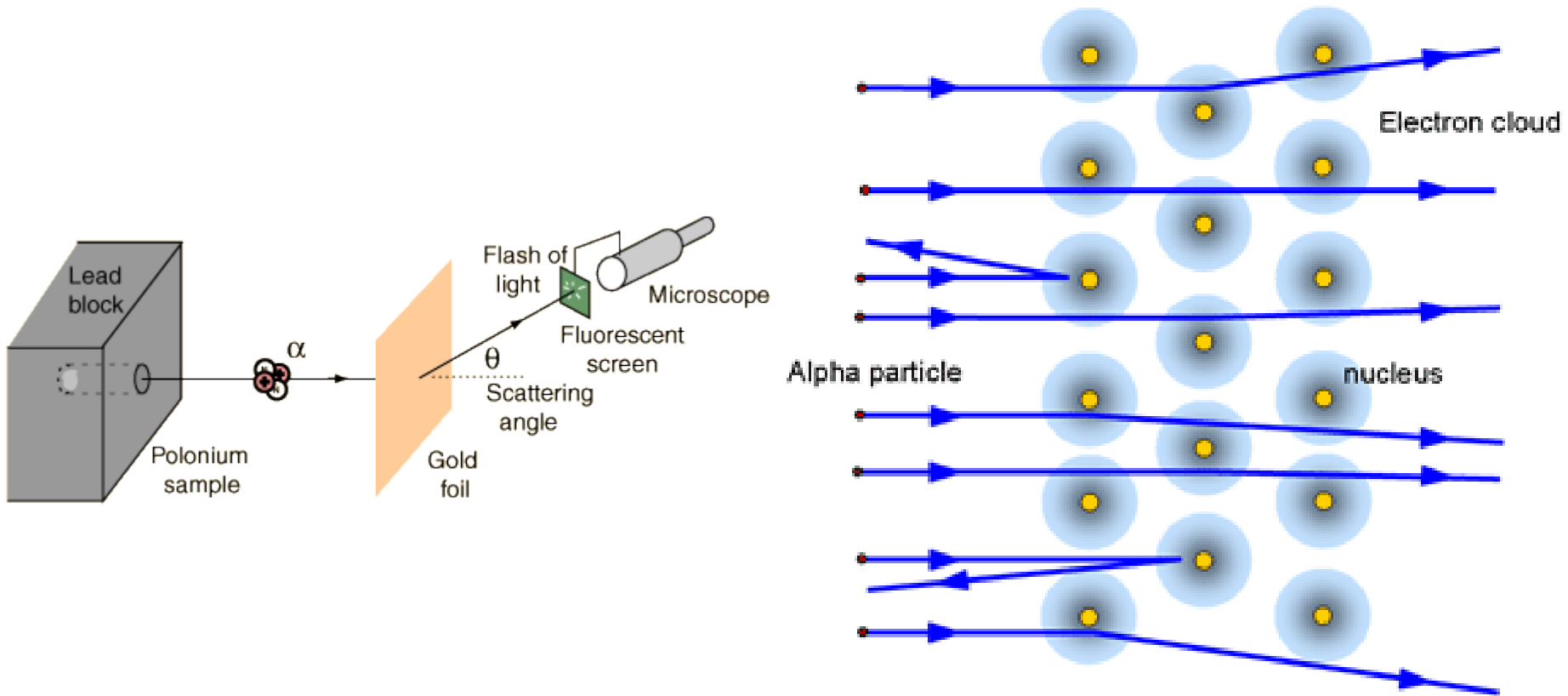


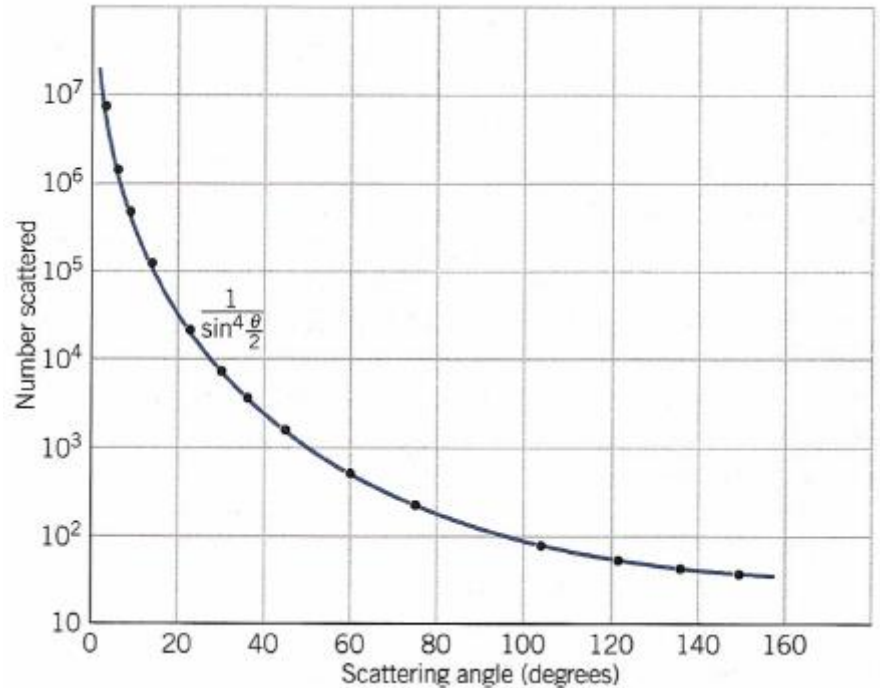
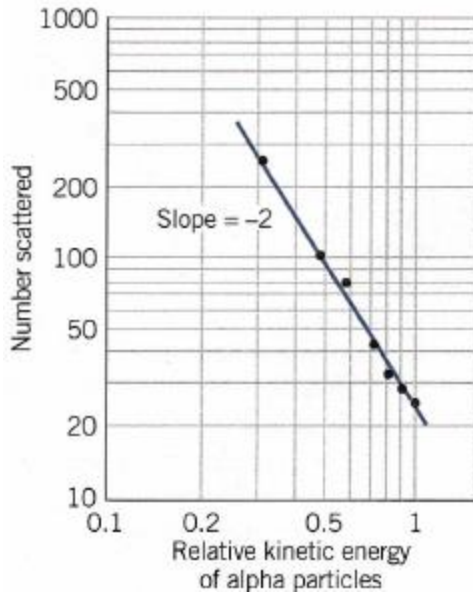
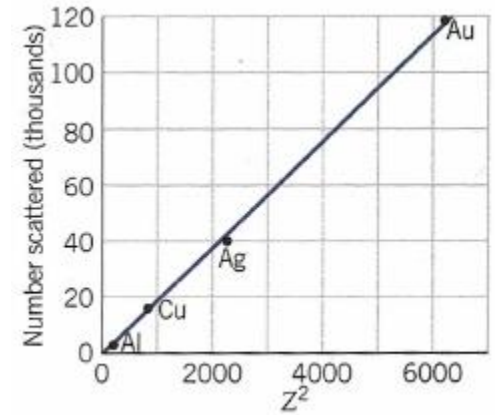
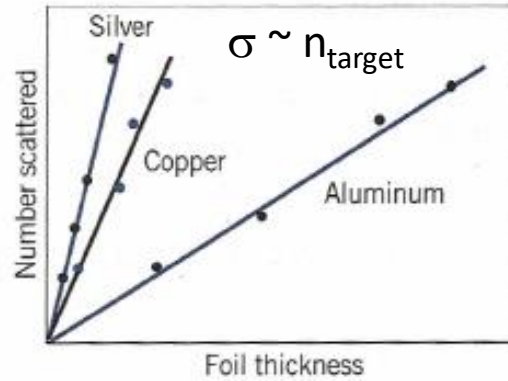
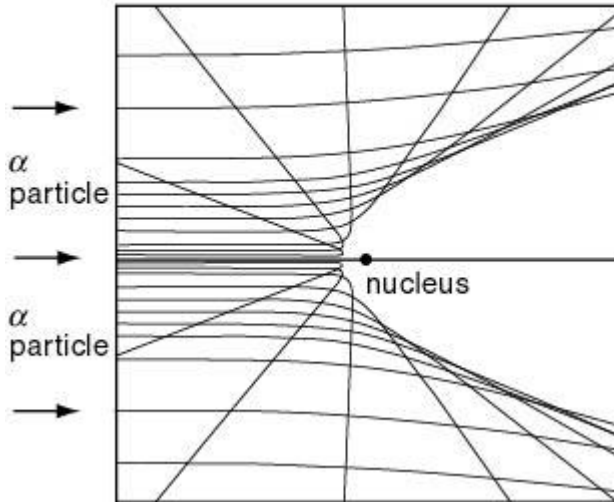
Rutherford Scattering



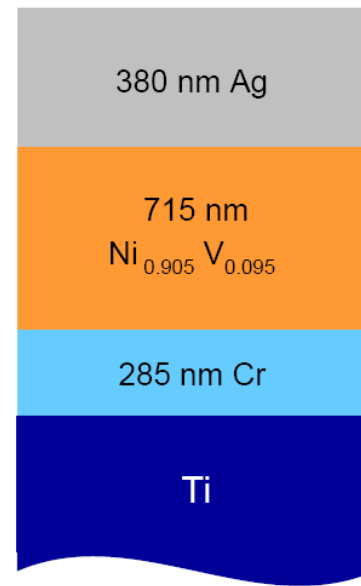
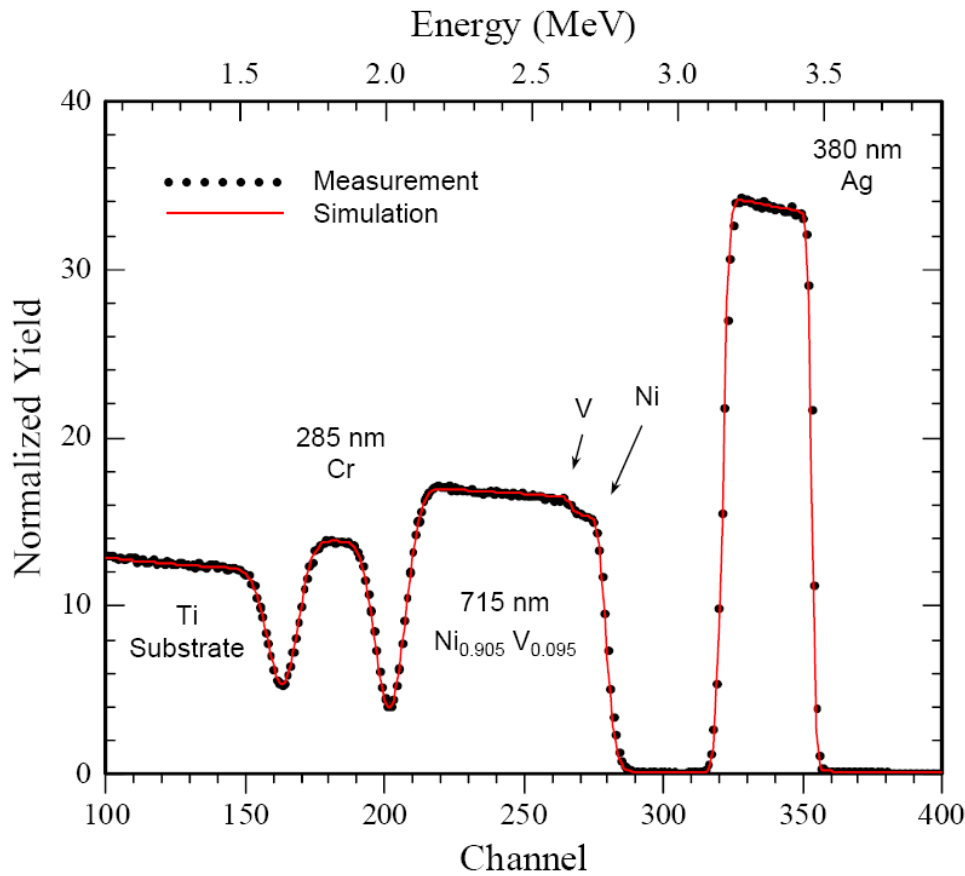
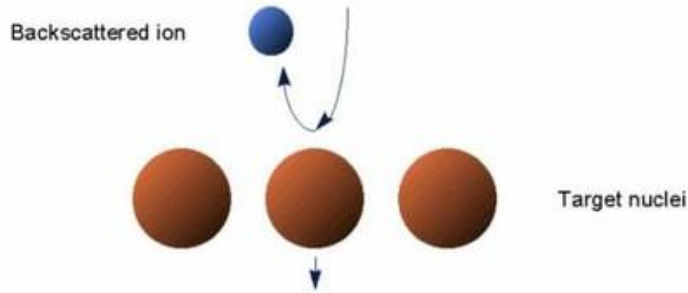
Rutherford Scattering

$$\frac{d\sigma}{d\Omega} = \left(\frac{qQ/4\pi\epsilon_0}{4E \sin(\theta/2)} \right)^2$$

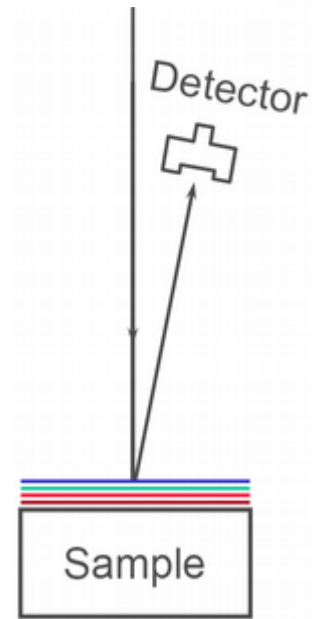
Trajectories of alpha particles



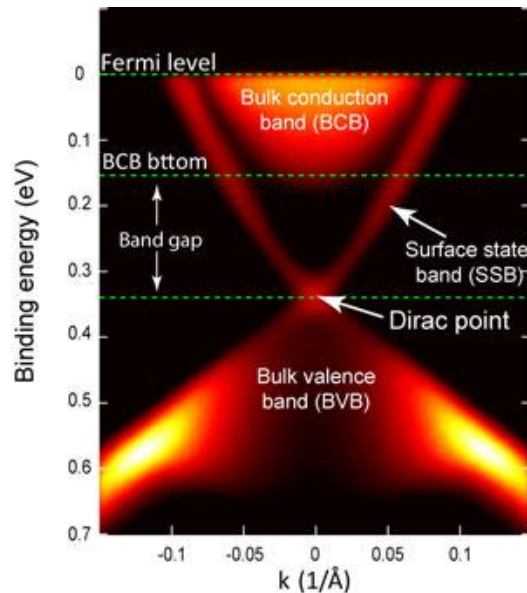
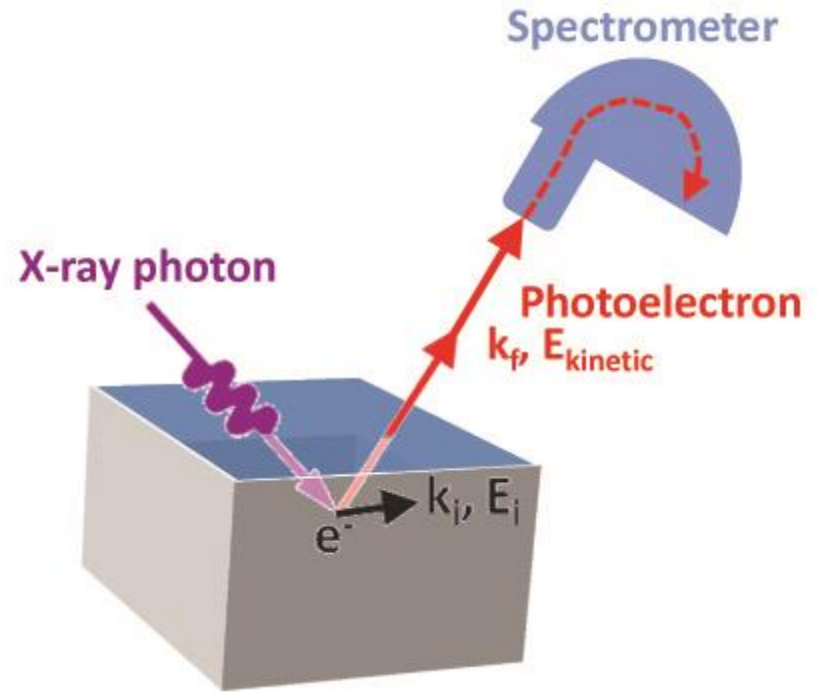
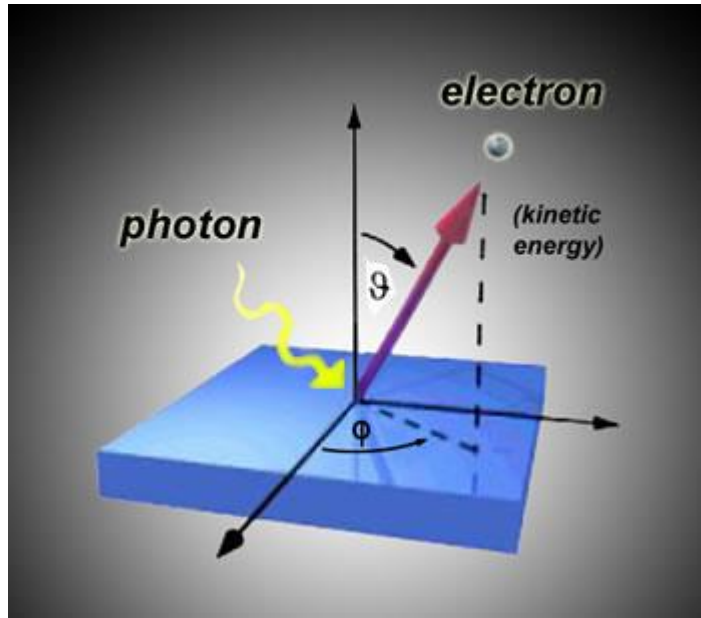
Rutherford BackScattering (RBS)



3.5 MeV ^4He



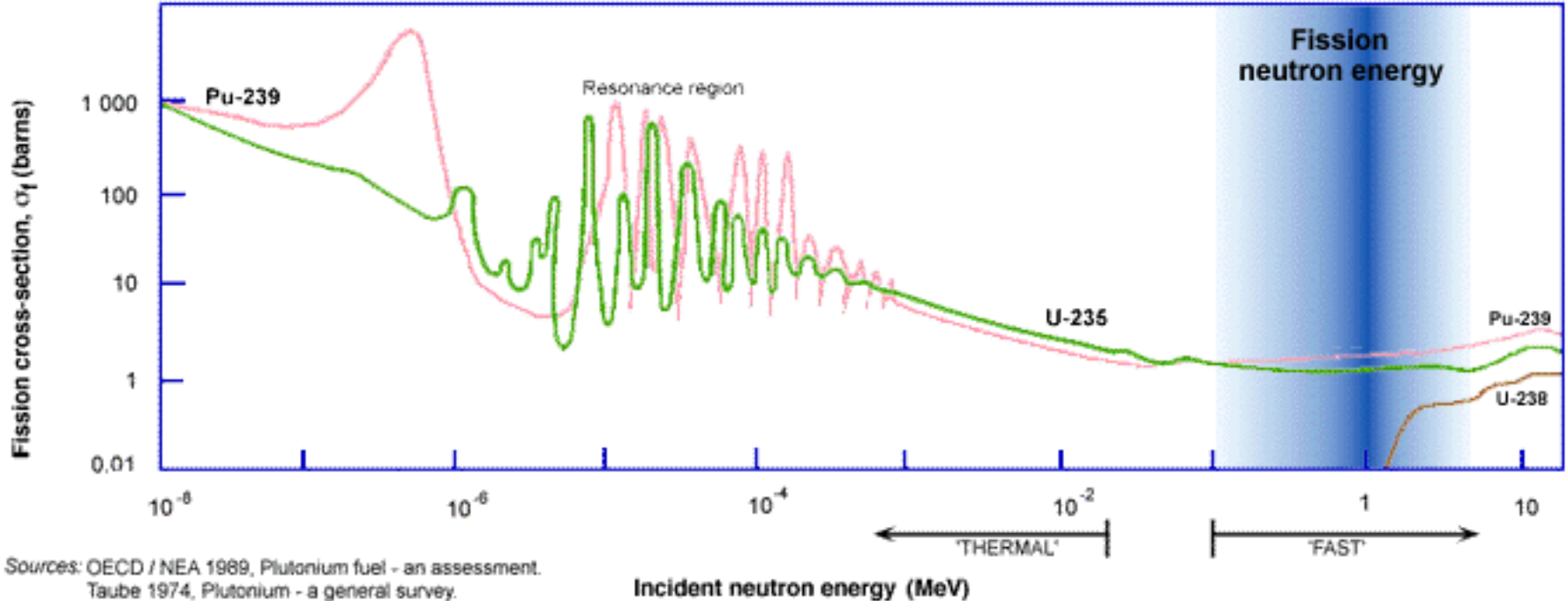
Angle-Resolved Photoemission Spectroscopy (ARPES)



Bi_2Se_3 Topological Insulator

Neutron-²³⁵U and ²³⁹Pu Fission Cross Section

NEUTRON CROSS-SECTIONS FOR FISSION OF URANIUM AND PLUTONIUM



Sources: OECD / NEA 1989, Plutonium fuel - an assessment.
 Taube 1974, Plutonium - a general survey.
 1 barn = 10⁻²⁸m², 1 MeV = 1.6 x 10⁻¹³J

