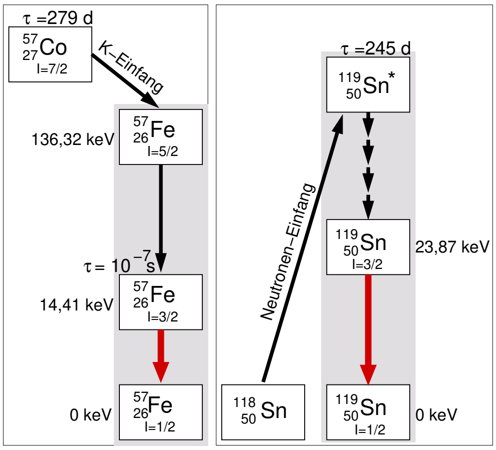
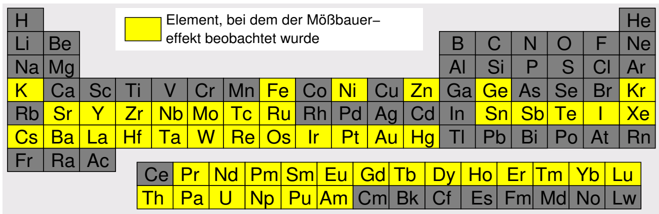
5. Mössbauer-Spektroskopie

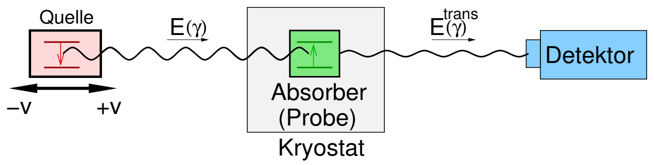
5.1. Prinzipien der Methode



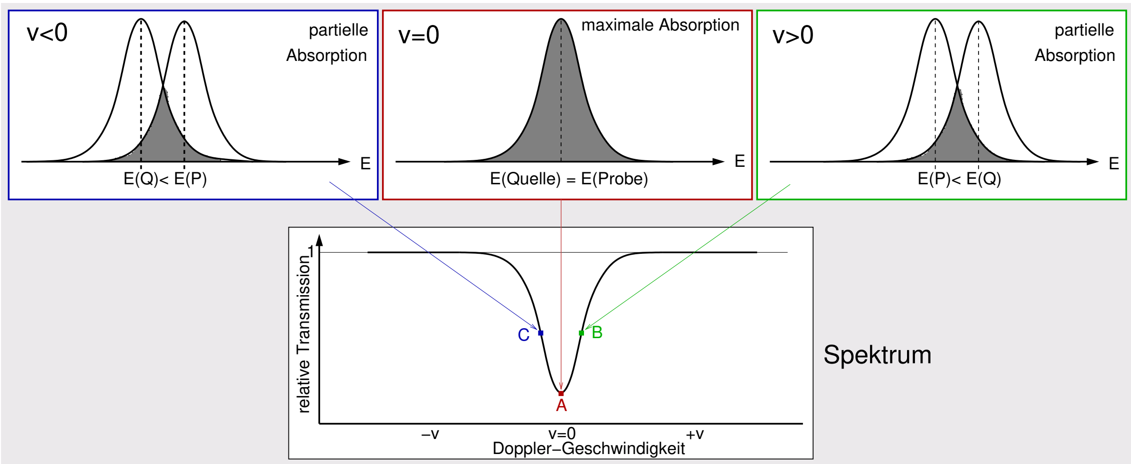
Kernzerfallschemata für die Fe- und Sn-Spektroskopie



Mössbauer-Kerne



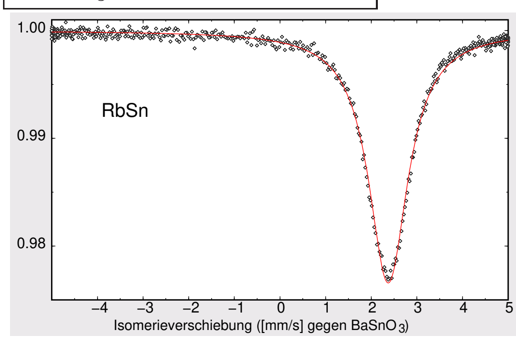
Mössbauer-Experiment



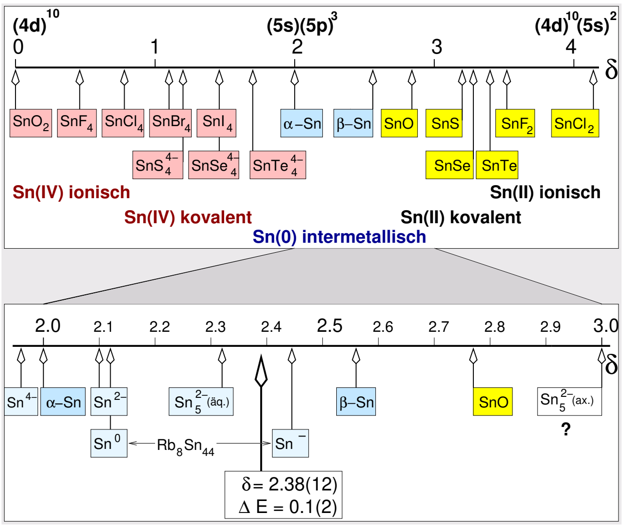
Prinzip der Detektion von Mössbauer-Spektren

5.2. Isomerieverschiebung (elektrische Monopol-WW)

$$\boxed{E_s = \frac{2\pi}{3} Z e^2 \Delta(r^2)(\rho_A^0 - \rho_E^0)}$$



^{119}Sn-Mößbauer-Spektrum von RbSn



^{119}Sn-Isomerieverschiebungen δ verschiedener Sn-Verbindungen