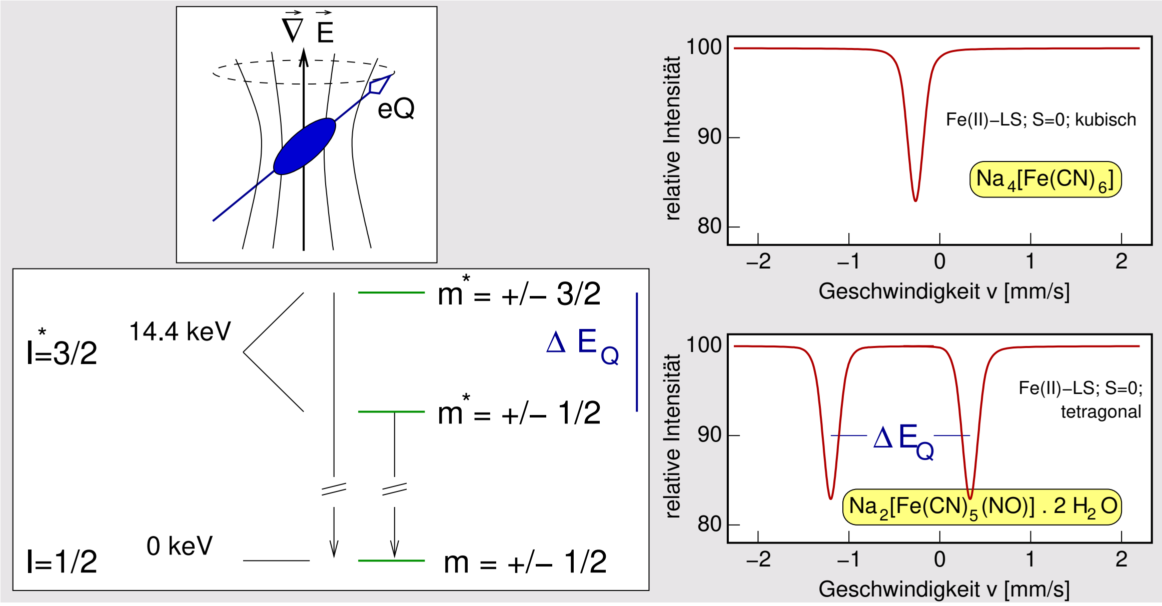
5.3. Quadrupolaufspaltung (elektrische Quadrupol-WW)

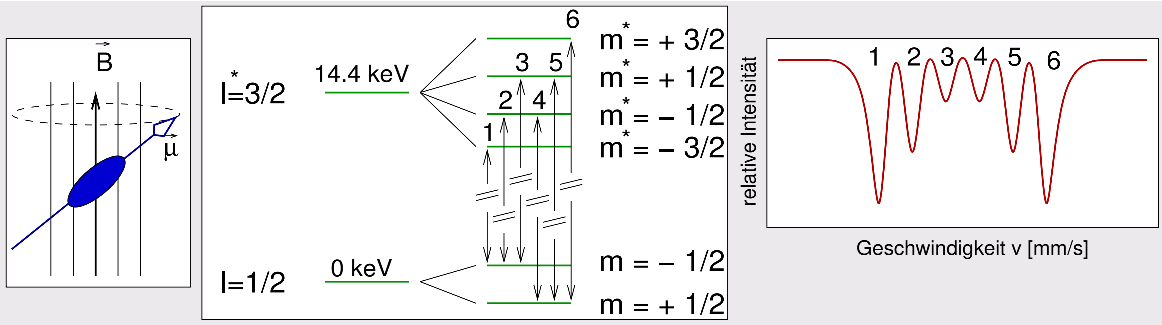
$$\boxed{E_Q(m) = \frac{eQV_{zz}}{4I(2I-1)}[3m^2 - I(I+1)]}$$



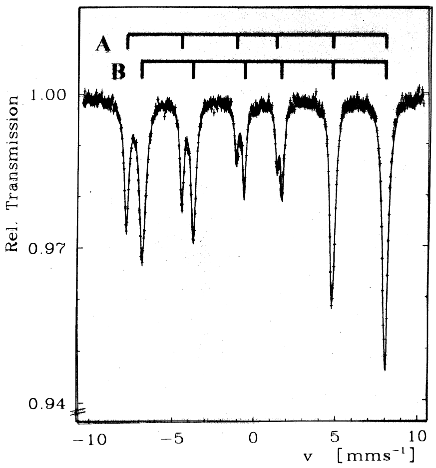
^{57}Fe-Mößbauer-Spektren mit/ohne elektrischer Quadrupol-Aufspaltung

5.4. Magnetische Hyperfeinaufspaltung

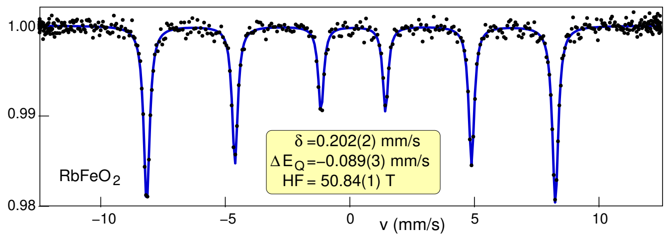
$$\boxed{E(m_I) = -m_I \frac{\mu}{I} B}$$



Magnetische Hyperfeinaufspaltung durch interne Magnetfelder



^{57}Fe-Mößbauer-Spektrum von Magnetit Fe_3O_4 (Spinell)



^{57}Fe-Mößbauer-Spektrum von $RbFeO_2$ (gestopfter Cristobalit-Typ)