(11.7) Calculate the spins and nuclear g factors for (a) ^{45}Ca, (b) ^{60}Co, and (c) ^{141}Pr, using data in Table 11.3.

$B_n := 5.0507866 \cdot 10^{-27} \cdot \frac{joule}{tesla}$ Definition of $\boldsymbol{B}_n$

$g(I, \mu) := \frac{\mu}{B_n \cdot I}$ Function defined according to eqn. (11.21)

(a) ^{45}Ca, I = 7/2, μ_I = -1.327*$\boldsymbol{B}_n$ $I_{Ca} := \frac{7}{2}$ $g\left(I_{Ca}, -1.3274 \cdot B_n\right) = -0.379$

(b) ^{60}Co, I = 5, μ_I = 3.799*$\boldsymbol{B}_n$ $I_{Co} := 5$ $g\left(I_{Co}, 3.799 \cdot B_n\right) = 0.76$

(c) ^{141}Pr, I = 5/2, μ_I = 4.136*$\boldsymbol{B}_n$ $I_{Pr} := \frac{5}{2}$ $g\left(I_{Pr}, 4.136 \cdot B_n\right) = 1.654$