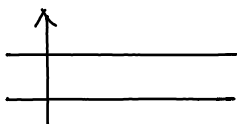
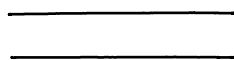


Weak field

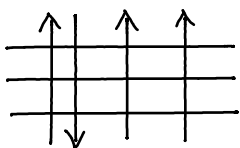


Strong field



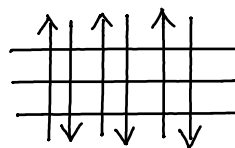
e_g

$$L=0 \Rightarrow g=2$$



$$S = 3/2$$

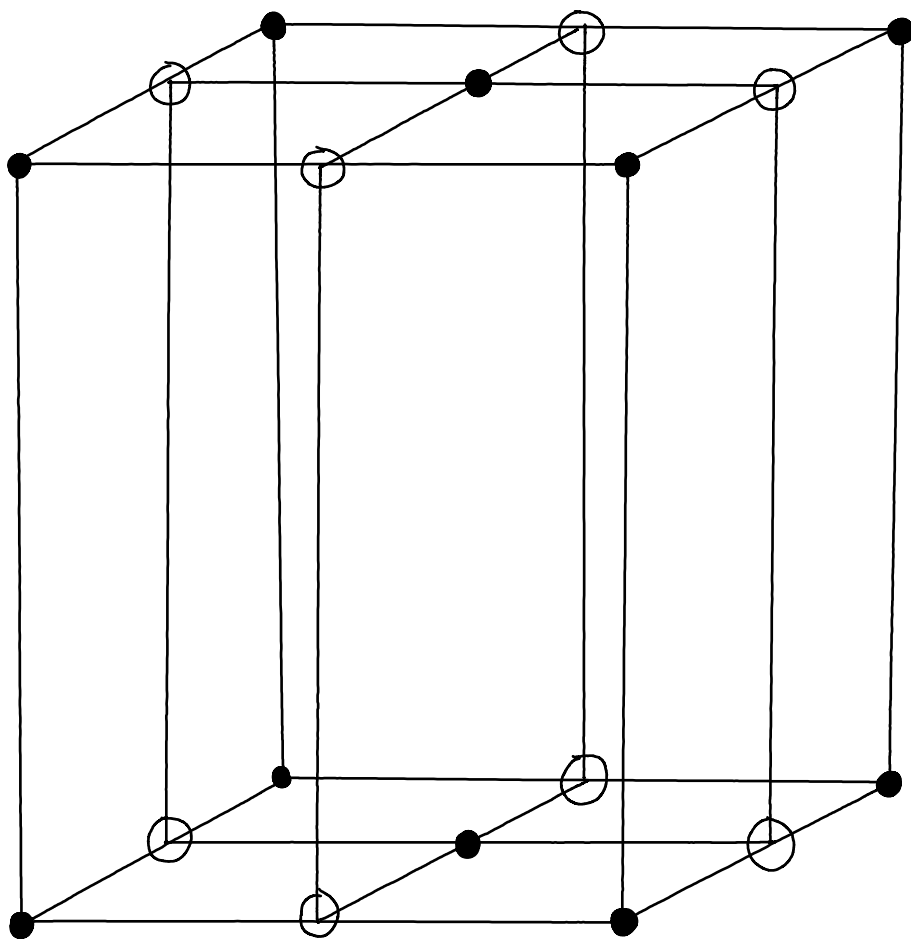
$$\Rightarrow \mu_{\text{eff}} \approx 3.87 \mu_B$$

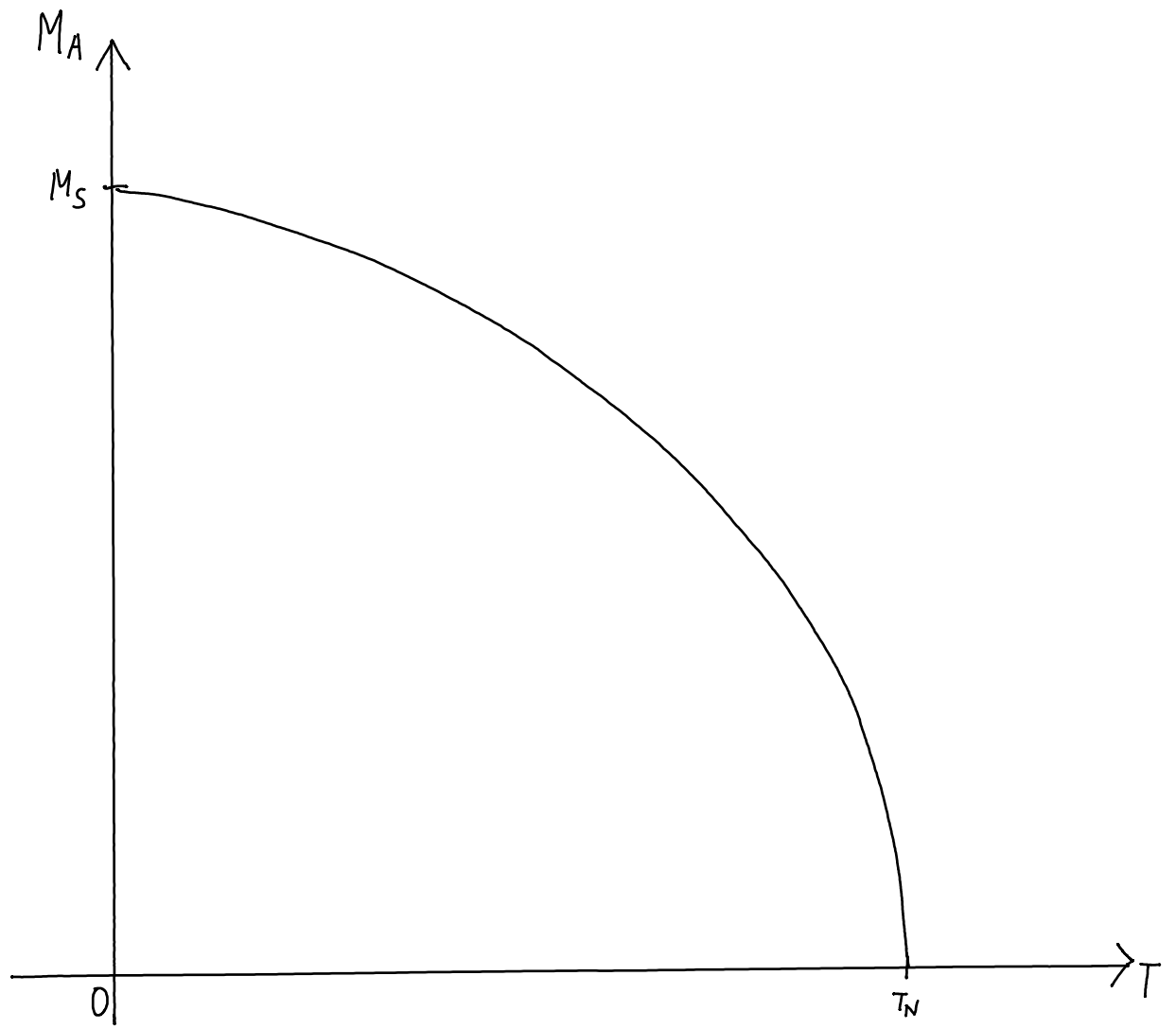


t_{2g}

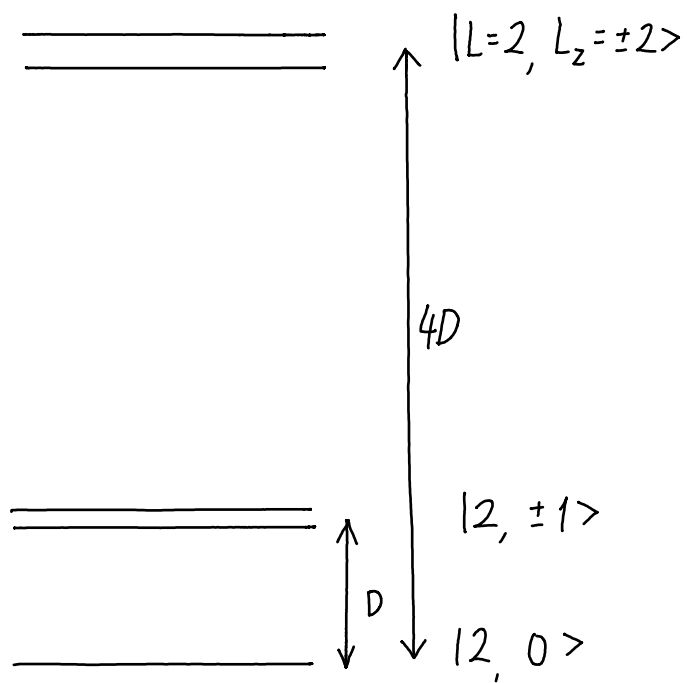
$$S = 1/2$$

$$\Rightarrow \mu_{\text{eff}} \approx 1.732 \mu_B$$

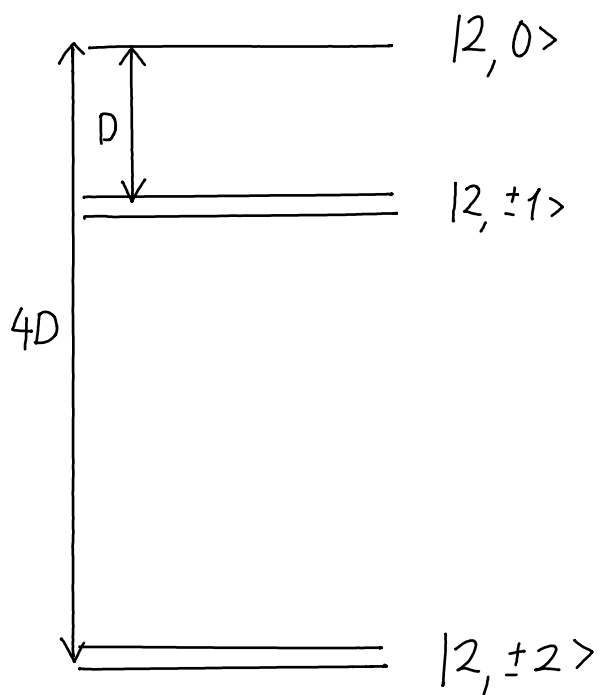




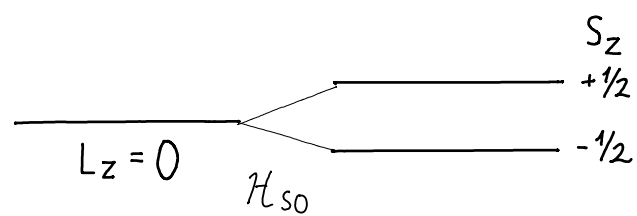
$D > 0$



$D < 0$



$D > 0$



$D < 0$

