

TL7-39 (Quantum number)

a) electron in 4f subshell

$$l=3, n=4, m_l = +3 \dots -3, m_s = \pm \frac{1}{2}$$

b) 3d subshell

$$n=3, l=2, m_l = +2 \dots -2, m_s = \pm \frac{1}{2}$$

c) 2p subshell

$$n=2, l=1, m_l = +1 \dots -1, m_s = \pm \frac{1}{2}$$