

Z: 80  $1s^2$   $2s^2$   $2p^6$   $3s^2$   $3p^6$   $4s^2$   $3d^8$

$4d^9$   $5s^2$   $4f^{14}$   $5p^6$   $6s^2$   $4f^{14}$   $5d^1$

n 5  $l$  2  $m_l$   $\pm 2$   $m_s = \pm \frac{1}{2}$