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NAME SYMBOL ALLOWED VALUES MEANING

PRINCIPAL n ~~1~~, 2, 3, ... - DISTANCE FROM NUCLEUS
- ROW ON P.T.

AZIMUTHAL l 0, 1, 2, 3, ... - ORBITAL SHAPE
 ~~l~~
MAX = $n-1$

- 0 s
- 1 p
- 2 d
- 3 f

MAGNETIC m_l 0, $\pm 1, \pm 2, \dots$ ORIENTATION OF
ORBITAL IN MAGNETIC
FIELD
MAX = l

OF VALUES = # ORBITALS

SPIN m_s $+\frac{1}{2}$ or $-\frac{1}{2}$ ORIENTATION OF
ELECTRON