

n	shell symbol	l	subshell symbol
1	K	0	s
2	L	1	p
3	M	2	d
4	N	3	f
⋮	⋮	⋮	⋮

If $n = 3$

- $l = 0$ ← 3s state
- $l = 1$ ← 3p state
- $l = 2$ ← 3d state

Always remember

$$n = 1, 2, 3, \dots$$

$$l = 0, 1, 2, \dots, (n-1)$$

$$-l \leq m_l \leq l$$