increasing orbital quantum number

increasing energy

| 4S | 4P | 4D | 4F |

| 3S | 3P | 3D |

| 2S | 2P |

Lyα

3P

1S

cascades resulting in Lyα

cascades not resulting in Lyα

P(n,l →Lyα)				
	1	**2**	**3**	**4**
s	0	0	1	0,58
p	-	1	0	0,26
d	-	-	1	0,74
f	-	-	-	1