



Spectroscopic Nomenclature

“Shells”

$n=1$ is “**K shell**”

$n=2$ is “**L shell**”

$n=3$ is “**M shell**”

$n=4$ is “**N shell**”

$n=5$ is “**O shell**”

“Subshells”

$\ell=0$ is “**s state**”

$\ell=1$ is “**p state**”

$\ell=2$ is “**d state**”

$\ell=3$ is “**f state**”

$\ell=4$ is “**g state**”

Example

1 electron in ground state of Hydrogen:

$n=1, \ell=0$ is denoted as: **1s¹**

