

Hydrogen-like wave functions

	$l = 0$	$l = 1$		$l = 3$					
	$m = 0$	$m = 0$	$m = \pm 1$		$m = 0$	$m = \pm 1$		$m = \pm 2$	
	s	p_z	p_x	p_y	d_{z^2}	d_{xz}	d_{yz}	d_{xy}	$d_{x^2-y^2}$
$n = 1$									
$n = 2$									
$n = 3$									