

Hydrogen Atom

	Ket Representation	Wave Function Representation	Matrix Representation
Hamiltonian			
Eigenvalues of Hamiltonian			
Normalized Eigenstates of Hamiltonian			
Coefficient of the energy eigenstate with quantum numbers n, ℓ, m			
Probability of measuring E_n			

Hydrogen Atom

	Ket Representation	Wave Function Representation	Matrix Representation
Operator for square of the angular momentum			
Eigenvalues of L^2			
Normalized Eigenstates of L^2			
Coefficient of the eigenstates of L^2 with quantum numbers n, ℓ, m			
Probability of measuring $\hbar^2 \ell(\ell + 1)$ for the square of the angular momentum			

Hydrogen Atom

	Ket Representation	Wave Function Representation	Matrix Representation
Operator for z-component of angular momentum			
Eigenvalues of L_z			
Normalized Eigenstates of L_z			
Coefficient of m^{th} eigenstates of L_z			
Probability of measuring $m\hbar$ for z -component of angular momentum			