Rigid Rotor/Particle on a Sphere

	Ket Representation	**Wave Function Representation**	**Matrix Representation**
Hamiltonian			
Eigenvalues of Hamiltonian			
Normalized Eigenstates of Hamiltonian			
Coefficient of the energy eigenstate with quantum numbers ℓ, m			
Probability of measuring $E_{\ell,m}$			

Rigid Rotor/Particle on a Sphere

	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 ℓ, m			
Probability of measuring $\hbar^2 \ell(\ell+1)$ for the square of the angular momentum			

Rigid Rotor/Particle on a Sphere

	Ket Representation	**Wave Function Representation**	**Matrix Representation**
Operator for z-component of angular momentum			
Eigenstates 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			