GROUP THEORY IN QUANTUM MECHANICS

Ingredients:

Noether theorem: Any differentiable symmetry of the action has a corresponding conservation law.

Homogeneity in time - energy conservation

Homogeneity in space: - momentum conservation

Isotropy in space: - angular momentum conservation

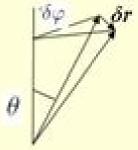
Wigner theorem:

The wave functions belonging to a given eigen energy E transform along a representation of the group G of the Schroedinger equation

$$H\psi(\lbrace x\rbrace) = E\psi(\lbrace x\rbrace)$$
 $HR\psi(\lbrace x\rbrace) = ER\psi(\lbrace x\rbrace).$

Infinitesimal operators as generators of Lie algebras

These operators perform infinitesimal translations and rotations in space time and form the basis if irreducible representations of continuous Lie groups. Example: rotations on a 3D sphere



$$J_z = -i \frac{\partial}{\partial \varphi}, \quad J^{\pm} = e^{\pm i\varphi} \left(\pm \frac{\partial}{\partial \theta} + i \cot \theta \frac{\partial}{\partial \varphi} \right)$$

 $J^2 = -\left[\frac{1}{\sin^2 \theta} \frac{\partial^2}{\partial \varphi^2} + \frac{1}{\sin \theta} \frac{\partial}{\partial \theta} \left(\sin \theta \frac{\partial}{\partial \theta} \right) \right] \sim \Delta(\theta, \varphi)$

Laplacian Δ is invariant under transformations in Euclidean space. In case of rotation group SO(3) we deal $v\Delta(\theta, \varphi)$ invariant under rotations on the sphere.

Quantum Group Symetry And Qtensor Algebras

Emilie Sanchez

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