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Quantum Theory, Groups and Representations: An Introduction  
Peter Woit Department of Mathematics, Columbia University  
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Unitary groups in quantum field theory. Group theory is an abstract way of mathematically analyzing symmetries. Unitary operators are paramount to quantum theory, so unitary groups are important in particle physics. The group of  $N$  dimensional

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unitary square matrices is denoted  $U(N)$ . Unitary operators preserve inner products which means probabilities are also preserved, so the quantum mechanics of the system is invariant under unitary transformations.

## **Symmetry in quantum mechanics - Wikipedia**

Quantum entanglement is a physical phenomenon that occurs when a pair or group of particles is generated, interact, or share spatial proximity in a way such that the quantum state of each particle of the pair or group cannot be described independently of the state of the others, including when the particles are separated by a large distance. The topic of quantum entanglement is at the heart of ...

## **Quantum entanglement - Wikipedia**

This graduate-level text develops the aspects of group theory most relevant to physics and chemistry (such as the theory of

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Thus, quantum mechanics attracted some of the ablest scientists of the 20th century, and they erected what is perhaps the finest intellectual edifice of the period. Historical basis of quantum theory Basic considerations. At a fundamental level, both radiation and matter have characteristics of particles and waves.

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Group Theory in Physics Group theory is the natural language to describe symmetries of a physical system | symmetries correspond to conserved quantities | symmetries allow us to classify quantum mechanical states representation theory degeneracies / level splittings | evaluation of matrix elements ) Wigner-Eckart theorem

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G S Im, Experimental constraints on formal quantum mechanics :



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the emergence of Born's quantum theory of collision processes in Göttingen, 1924-1927, Archive for History of Exact Sciences 50 (1) (1996), 73-101. M Jammer, The philosophy of quantum mechanics : the interpretations of quantum mechanics in historical perspective (New York, 1974).

## **Quantum mechanics history - MacTutor History of Mathematics**

Quantum electrodynamics is an abelian gauge theory with the symmetry group  $U(1)$  and has one gauge field, the electromagnetic four-potential, with the photon being the gauge boson.

## **Gauge theory - Wikipedia**

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## **E. P. Wigner, Group Theory and its Application to the ...**

In mathematics and theoretical physics, the term quantum group

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denotes one of a few different kinds of noncommutative algebras with additional structure.

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