

## Unitary Group Representations In Physics Probability And Number Theory Mathematics Lecture Notes Series 55

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### Unitary Group Representations In Physics

Quantum theory is all about Hilbert spaces, so when you combine quantum theory with the all-important concept of symmetry, you get the concept of a unitary group representation on a Hilbert space. The fact that we can classify the unitary representations of our favorite symmetry groups is what makes physics what it is today!

### Unitary Group Representations in Physics, Probability and ...

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### Unitary group representations in physics, probability, and ...

In mathematics, a unitary representation of a group  $G$  is a linear representation  $\pi$  of  $G$  on a complex Hilbert space  $V$  such that  $\pi(g)$  is a unitary operator for every  $g \in G$ . The general theory is well-developed in case  $G$  is a locally compact (Hausdorff) topological group and the representations are strongly continuous.

### Unitary representation - Wikipedia

A representation of the topological group by unitary operators in a Hilbert space (cf. Unitary operator ). The theory of unitary representations is one of the most developed parts of the theory of representations of topological groups, which is connected both with its numerous applications and with the presence of a number of properties facilitating the study of unitary representations.

### Unitary representation - Encyclopedia of Mathematics

In mathematics and theoretical physics, Wigner's classification is a classification of the nonnegative ( $E \geq 0$ ) energy irreducible unitary representations of the Poincaré group which have sharp mass eigenvalues. (Since this group is noncompact, these unitary representations are infinite-dimensional.) It was introduced by Eugene Wigner, to classify particles and fields in physics—see the article particle physics and representation theory. It relies on the stabilizer subgroups of that ...

### Wigner's classification - Wikipedia

In mathematics, the unitary group of degree  $n$ , denoted  $U(n)$ , is the group of  $n \times n$  unitary matrices, with the group operation of matrix multiplication. The unitary group is a subgroup of the general linear group  $GL(n, \mathbb{C})$ . Hyperorthogonal group is an archaic name for the unitary group, especially over finite fields.

### Unitary group - Wikipedia

Thus, in favorable cases, the quantum system will carry a unitary representation of the universal cover  $\tilde{G}$  of the symmetry group  $G$ . This is desirable because is much easier to work with than the non-vector space  $G$ .

### Particle physics and representation theory - Wikipedia

In mathematics, the special unitary group of degree  $n$ , denoted  $SU(n)$ , is the Lie group of  $n \times n$  unitary matrices with determinant 1. (More general unitary matrices may have complex determinants with absolute value 1, rather than real 1 in the special case.). The group operation is matrix multiplication. The special unitary group is a subgroup of the unitary group  $U(n)$ , consisting of all  $n \times n$  ...

### Special unitary group - Wikipedia

Quantum Theory, Groups and Representations: An Introduction Peter Woit Department of Mathematics, Columbia University [woit@math.columbia.edu](mailto:woit@math.columbia.edu)

### Quantum Theory, Groups and Representations: An Introduction

Group Theory Unitary Group Representations in Physics, Probability and ... ducible representations is simple and well understood it is considerably more specific than the general case. Thus in the case of Abelian groups the spectral theorem gives a full collection of mod-els for all unitary representations together with a necessary and sufficient condition for ...

### Unitary representations and cyclic groups - Cain Huang

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Böhm A. (1973) Generalized Eigenvectors and Group Representations — The Connection Between Representations of  $SO(4, 1)$  and the Poincaré Group. In: Barut A.O. (eds) Studies in Mathematical Physics. NATO Advanced Study Institutes Series (Series C — Mathematical and Physical Sciences), vol 1.

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