

## Commutation Relations

Exchange symmetries of states  $\Leftrightarrow$  Commutation relations between operators

$$|n_0, n_1, \dots, n_\alpha, \dots\rangle = \dots \frac{(\hat{a}_\alpha^+)^{n_\alpha}}{\prod_{m_\alpha=0}^{n_\alpha-1} C(m_\alpha)} \dots \frac{(\hat{a}_1^+)^{n_1}}{\prod_{m_1=0}^{n_1-1} C(m_1)} \frac{(\hat{a}_0^+)^{n_0}}{\prod_{m_0=0}^{n_0-1} C(m_0)} |\Phi\rangle \quad \text{Fock space}$$

$|\Phi\rangle = |0, 0, \dots\rangle$  is the “vacuum”.

For fermions,  $n_\alpha = 0, 1 \rightarrow \prod_{m_\alpha=0}^{n_\alpha-1} C(m_\alpha) = 1 \quad \forall \alpha$

Exchange symmetries are established by requiring  $[\hat{a}_\alpha^+, \hat{a}_\beta^+]_\mp = 0$  Boson  
Fermion

$$[a, b]_\mp \equiv ab \mp ba = \begin{cases} [a, b] & \text{Commutator} \\ \{a, b\} & \text{Anti-commutator} \end{cases}$$

# Operator Commutation Relations

**AN Whitehead**



## **Operator Commutation Relations:**

*Operator Commutation Relations* P.E.T. Jørgensen, R.T. Moore, 2012-12-06 In his Retiring Presidential address delivered before the Annual Meeting of The American Mathematical Society on December 1948 the late Professor Einar Hille spoke on his recent results on the Lie theory of semigroups of linear transformations So far only commutative operators have been considered and the product law is the simplest possible The non commutative case has resisted numerous attacks in the past and it is only a few months ago that any headway was made with this problem I shall have the pleasure of outlining the new theory here it is a blend of the classical theory of Lie groups with the recent theory of one parameter semigroups The list of references in the subsequent publication of Hille's address Bull Amer Math Soc 56 1950 includes pioneering papers of I E Segal I M Gelfand and K Yosida In the following three decades the subject grew tremendously in vitality incorporating a number of different fields of mathematical analysis Early papers of V Bargmann I E Segal L G ding Harish Chandra I M Singer R Langlands B Konstant and E Nelson developed the theoretical basis for later work in a variety of different applications Mathematical physics astronomy partial differential equations operator algebras dynamical systems geometry and most recently stochastic filtering theory As it turned out of course the Lie groups rather than the semigroups provided the focus of attention

### **Inequivalent Representations of Canonical Commutation and Anti-Commutation Relations**

Asao Arai, 2020-02-04 Canonical commutation relations CCR and canonical anti commutation relations CAR are basic principles in quantum physics including both quantum mechanics with finite degrees of freedom and quantum field theory From a structural viewpoint quantum physics can be primarily understood as Hilbert space representations of CCR or CAR There are many interesting physical phenomena which can be more clearly understood from a representation theoretical viewpoint with CCR or CAR This book provides an introduction to representation theories of CCR and CAR in view of quantum physics Particular emphases are put on the importance of inequivalent representations of CCR or CAR which may be related to characteristic physical phenomena The topics presented include general theories of representations of CCR and CAR with finite and infinite degrees of freedom the Aharonov Bohm effect time operators quantum field theories based on Fock spaces Bogoliubov transformations and relations of infinite renormalizations with inequivalent representations of CCR This book can be used as a text for an advanced topics course in mathematical physics or mathematics

### **Operator Commutation Relations** P. E. T. Jorgensen, R. T. Moore, 1984-02-29

**Commutation Properties of Hilbert Space Operators and Related Topics** Calvin R. Putnam, 2012-12-06 What could be regarded as the beginning of a theory of commutators  $AB - BA$  of operators  $A$  and  $B$  on a Hilbert space considered as a discipline in itself goes back at least to the two papers of Weyl 3 1928 and von Neumann 2 1931 on quantum mechanics and the commutation relations occurring there Here  $A$  and  $B$  were unbounded self adjoint operators satisfying the relation  $AB - BA = iI$  in some appropriate sense and the problem was that of establishing the essential uniqueness of the pair  $A$  and  $B$  The study of commutators of bounded

operators on a Hilbert space has a more recent origin which can probably be pinpointed as the paper of Wintner 6 1947 An investigation of a few related topics in the subject is the main concern of this brief monograph The ensuing work considers commuting or almost commuting quantities A and B usually bounded or unbounded operators on a Hilbert space but occasionally regarded as elements of some normed space An attempt is made to stress the role of the commutator  $AB - BA$  and to investigate its properties as well as those of its components A and B when the latter are subject to various restrictions Some applications of the results obtained are made to quantum mechanics perturbation theory Laurent and Toeplitz operators singular integral transformations and Jacobi matrices

**An Invitation to the Algebra of Canonical Commutation Relations** Dénes Petz,1990

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Stochel,1990 *Generalized Commutation Relations* Irl Keith Yale,1966 **Operator Methods in Quantum Mechanics**

O. L. De Lange,R. E. Raab,1991 The purpose of this volume is two fold to provide an introduction to the use of operator methods in quantum mechanics and to serve as a reference work on this topic As such it should be suitable for use as a complement to senior and graduate courses in quantum mechanics Operator Algebras and Quantum Statistical

Mechanics Ola Bratteli,1981 *Wave Mechanics and the New Quantum Theory* Arthur Erich Haas,1928 Creation and Annihilation Operators John Avery,1976 **Operator Methods in Ligand Field Theory** Hiroshi Watanabe,1966

**Quantum States and Processes** George H. Duffey,1991 Seeking to help readers gain knowledge of quantum mechanics as a method for solving problems this work develops the symmetry basis for quantum mechanics integrates spatial and temporal symmetry into its framework and features recent evidence on quantum transitions and visible quantum jumps

**Publications of the Research Institute for Mathematical Sciences** Kyōto Daigaku. Sūri Kaiseki Kenkyūjo,1983

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**Correlated States of Quantum Systems** Moiseĭ Aleksandrovich Markov,1993 *I[A]dernaĭ[a] fizika* ,1998

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