

## 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

**Rachel S Tattersall**



## **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 An Invitation to

the Algebra of Canonical Commutation Relations Dénes Petz, 1990 **Weighted Quasishifts, Generalized Commutation Relation, and Subnormality** Jerzy Bartłomiej Stochel, 1990 **Generalized Commutation Relations** Irl Keith Yale, 1966

*Transactions of the American Mathematical Society* American Mathematical Society, 1919 **On Metabelian Groups ...** William Benjamin Fite, 1902 *American Journal of Mathematics*, 1922 **Electric Railway Handbook** Albert Sutton Richey, 1924 *Elektrische Traktion* **Operator Algebras and Quantum Statistical Mechanics** Ola Bratteli, 1981 American Machinist, 1919 *Coal Age*, 1916 Vols for 1955 62 include Mining guidebook and buying directory *The*

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