

Commutation Relation Between \hat{L}_x , \hat{L}_y and \hat{L}_z

Let, $[\hat{L}_x, \hat{L}_y] = \hat{L}_x \hat{L}_y - \hat{L}_y \hat{L}_x$ -----(1)

Find the value of $\hat{L}_x \hat{L}_y$

$$\therefore \hat{L}_x \hat{L}_y = (y\hat{p}_z - z\hat{p}_y) \cdot (z\hat{p}_x - x\hat{p}_z) \text{ -----(2)}$$

$$= -i\hbar \left(y \frac{\partial}{\partial z} - z \frac{\partial}{\partial y} \right) \cdot -i\hbar \left(z \frac{\partial}{\partial x} - x \frac{\partial}{\partial z} \right)$$

$$= -\hbar^2 \left\{ \left(y \frac{\partial}{\partial z} - z \frac{\partial}{\partial y} \right) \cdot \left(z \frac{\partial}{\partial x} - x \frac{\partial}{\partial z} \right) \right\}$$

$$= -\hbar^2 \left\{ y \frac{\partial}{\partial z} z \frac{\partial}{\partial x} - y \frac{\partial}{\partial z} x \frac{\partial}{\partial z} - z \frac{\partial}{\partial y} z \frac{\partial}{\partial x} + z \frac{\partial}{\partial y} x \frac{\partial}{\partial z} \right\}$$

$$= -\hbar^2 \left\{ y \frac{\partial}{\partial x} + yz \frac{\partial^2}{\partial z \partial x} - yx \frac{\partial^2}{\partial z^2} - z^2 \frac{\partial^2}{\partial y \partial x} + zx \frac{\partial^2}{\partial y \partial z} \right\} \text{ ----- (3)}$$

Similarly, Find the value of $\hat{L}_y \hat{L}_x$

$$\therefore \hat{L}_y \hat{L}_x = (z\hat{p}_x - x\hat{p}_z) \cdot (y\hat{p}_z - z\hat{p}_y)$$

Operator Commutation Relations

Anthony S. Fauci



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

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An Invitation to the Algebra of Canonical Commutation Relations Dénes Petz,1990 *Transactions of the American Mathematical Society* American Mathematical Society,1919

Weighted Quasishifts, Generalized Commutation Relation, and Subnormality Jerzy Bartłomiej Stochel,1990 *American Journal of Mathematics* ,1922

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