Invitation to the algebra of canonical commutation relations

Leuven University Press - Canonical commutation relation

- For a gauge system, the momentum and angular momentum operators of the individual part (quark~gluon, electron~photon), the existing ones are either gauge invariant or satisfy the canonical commutation relation only but not both.

- We suggest a decomposition which satisfies both the gauge invariance and canonical commutation relations. It might be useful and restore our picture of nucleon internal structure.

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canonical commutation relation in nLab

Equally, we can measure the momentum in the direction of different axes with arbitrary precision.

Canonical Commutation Relation

Take note that only for measurements along the same axis is the commutator non-zero.

rt.representation theory

We see that, except for reflections, all isometries can be written as and if,as usual, we represent these transformations by matrices there is a realization of the transformation group by 2×2 matrices, in which This is the basic representation of the group SU 1,1. This will win you the duration to become option controls, indicate TOC times, RSS is, and more.

rt.representation theory

The Dirac commutator for the Coulomb gauge can be replaced with the standard commutator by using Lorentz gauge expansions with the longitudinal and timelike parts of all field operators suppressed.

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