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We develop relativistic wave
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Quantum mechanics. The familiar hermitian Dirac equation emerges as an exact result; we also find new models with properties that have no counterpart in hermitian quantum mechanics. For example in an 8-dimensional representation of the PT-generalized Dirac equation, non-hermitian mass matrices allow for flavor ...

*Relativistic Non-Hermitian
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Relativistic Non-Hermitian
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Cleveland OH 44106-7079 We develop relativistic wave equations in the framework of the new non-hermitian PT quantum mechanics.

Relativistic Non-Hermitian Quantum Mechanics

Abstract: We develop relativistic wave equations in the framework of the new non-hermitian \mathcal{PT} quantum mechanics. The familiar Hermitian Dirac equation emerges as an exact result of imposing the Dirac algebra, the criteria of \mathcal{PT} -symmetric quantum mechanics, and relativistic invariance. However, relaxing the constraint that in

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Quantum Mechanics particular the mass matrix be Hermitian also allows for models that have no counterpart in conventional quantum mechanics.

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We develop relativistic wave equations in the framework of the new non-Hermitian PT quantum mechanics. The familiar Hermitian Dirac equation emerges as an exact result of imposing the Dirac algebra, the criteria of PT-symmetric quantum mechanics, and relativistic invariance. However, relaxing the constraint that, in particular, the mass matrix be Hermitian also allows for models that have no

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Counterpart in conventional quantum mechanics.

Relativistic non-Hermitian quantum mechanics - NASA/ADS
Abstract. We develop relativistic wave equations in the framework of the new non-hermitian \mathcal{PT} quantum mechanics. The familiar Hermitian Dirac equation emerges as an exact result of imposing the Dirac algebra, the criteria of \mathcal{PT} -symmetric quantum mechanics, and relativistic invariance.

Sparrho / Relativistic Non-Hermitian Quantum Mechanics
Non-relativistic quantum mechanics refers to the

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mathematical formulation of quantum mechanics applied in the context of Galilean relativity, more specifically quantizing the equations of classical mechanics by replacing dynamical variables by operators. Relativistic quantum mechanics (RQM) is quantum mechanics applied with special relativity.

Relativistic quantum mechanics - Wikipedia

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When quantum mechanics was originally formulated, it was applied to models whose correspondence limit was non-relativistic classical mechanics. For instance, the well-known model of the quantum harmonic oscillator uses an explicitly non-relativistic expression for the kinetic energy of the oscillator, and is thus a

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Quantum version of the
classical harmonic
oscillator .

*Quantum mechanics -
Wikipedia*

Non-Hermitian Quantum
Mechanics A fundamental
assumption of quantum
mechanics is that operators
are represented by Hermitian
matrices. This guarantees
that observable quantities,
which are given by the
eigenvalues of these matrix
operators, are real-valued
(as opposed to complex), and
that quantum mechanical
systems evolve in a manner
that conserves probability.

Kate Brown - Non-Hermitian

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...

We find that the fundamental representation of the Dirac equation, which describes relativistic fermions, remains unchanged in the generalization to the non-Hermitian theory. Higher dimensional representations, which ordinarily decouple into pairs of Dirac fermions in Hermitian quantum mechanics, here describe new types of particles with extremely compelling properties.

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Perimeter ...*

Non-Hermitian quantum

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mechanics deals with two types of physical phenomena. One type of phenomena cannot be described by the standard (Hermitian) quantum mechanics since the local potentials in the Hamiltonians are complex. The second type of phenomena are associated with local real potentials that support continuous spectra.

Non-Hermitian quantum mechanics - Wikipedia

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From here, one could also very quickly move to the non-Hermitian statistical quantum mechanics where one prepares and works with the statistical mixtures of states characterized, conveniently, by the non-Hermitian density matrices of the form (24) $\rho^{\wedge}(t) = \sum_k |\psi(k)(t)\rangle \langle p_k| \langle \psi^{\ominus}(k)(t)| \langle \psi^{\ominus}(k)(t)|, \sum_k p_k = 1.$

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*Non-Hermitian interaction
representation and its use
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*Optical Realization of
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The manifest non-Hermiticity
of the relativistic
Peano-Baker Hamiltonian in
the latter equation seems to
obstruct its compatibility
with quantum mechanics. A

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*Relativistic supersymmetric
quantum mechanics based on*

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Non-Hermitian quantum mechanics (NHQM) is an important alternative to the standard (Hermitian) formalism of quantum mechanics, enabling the solution of otherwise difficult problems. The first book to present this theory, it is useful to advanced undergraduate and graduate students and researchers in physics, chemistry and engineering.

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