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Quantum Mechanics
non-Hermitian
quantum mechanics

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puts physical properties and principles at the forefront of the theory; specifically, the parity (P) and time-reversal (T) operators taken on the analogous role to the Hermitian conjugate.

Relativistic
Zitterbewegung in non-
Hermitian ...

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Quantum
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However, relativity suggests that time should be understood similarly to space.

This means in relativistic QM either time has to be promoted to an operator or position has to be demoted from being understood as an observable. The first significant relativistic

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Quantum
Mechanics
QM theory was Diracs
equation which
modelled a single
spinning electron.

NON-HERMITIAN
QUANTUM
MECHANICS by
KATHERINE JONES-
SMITH

Non-Hermitian
Quantum Mechanics
A fundamental
assumption of

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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

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Relativistic Non Hermitian Quantum Mechanics

manner that
conserves probability.

Quantum Chemistry
4.7 - Hermitian
Operators
Non-Hermitian
quantum mechanics
(NHQM) is an
important alternative
to the standard
(Hermitian) formalism
of quantum
mechanics, enabling

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the solution of otherwise difficult problems. The first book to present this theory, it is useful to advanced graduate students and researchers in physics, chemistry and engineering.

Non-Hermitian
Quantum Mechanics:
Nimrod Moiseyev ...

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To address physical properties of recent experiments 4,6 we start by briefly reviewing the mathematical foundations of pseudo-hermitian quantum mechanics 8. Let H be a general, non-hermitian ...

Non-hermitian
quantum

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Hermitian

thermodynamics |
Scientific Reports

Relativistic Non-

Hermitian Quantum

Mechanics Katherine

Jones-Smith and

Harsh Mathur

Department of

Physics, Case

Western Reserve

University, 10900

Euclid Avenue,

Cleveland OH

44106-7079

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Quantum
Mechanics
Kate Brown - Non-
Hermitian Quantum
Mechanics - Hamilton

...

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

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invariance. However, relaxing the constraint that in particular the mass matrix be Hermitian also allows for models that have no counterpart in conventional quantum mechanics.

Relativistic non-
Hermitian quantum
mechanics -
NASA/ADS

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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; we also find new models ...

Time as a Hermitian operator in quantum

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Relativistic Non Hermitian Quantum Mechanics ...

The difficulty of a return to the full-fledged non-stationary formalism of the non-Hermitian interaction picture remained perceived as a challenge [21], [22], [23]. In our present paper we shall return to the subject, with the emphasis on the building of a

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Hermitian
methodical bridge
Quantum
between the
Mechanics
alternative non-
Hermitian
formulations of
quantum mechanics.

Relativistic Non
Hermitian Quantum
Mechanics
Non-Hermitian
quantum mechanics
is the study of

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quantum-mechanical
Hamiltonians that are
not Hermitian.

Notably, they appear
in the study of
dissipative systems.

Also, non-Hermitian
Hamiltonians with
unbroken parity-time
(PT) symmetry have
all real eigenvalues.

Parity-time (PT)
symmetry

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Quantum
mechanics -

Wikipedia

provides a unique platform to realize the analogy of the non-Hermitian relativistic quantum systems in optics [50–53]. In this paper, we focus on a fundamental phenomenon in relativistic quantum mechanics - ZB

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oscillations. While the
optical analog of the
relativistic ZB effect

Non-Hermitian
interaction
representation and its
use in ...
Short lecture
Hermitian operators in
quantum mechanics.
Measured values of
physical properties in
quantum mechanics

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must correspond to
eigenvalues of their
quantum operators.
Physical properties ...

Quantum Mechanics
of Klein-Gordon
equation
Abstract Light
propagation in
distributed-feedback
optical structures with
gain or loss regions is
shown to provide an

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Quantum

Mechanics

accessible laboratory tool to visualize in optics the spectral properties of the one-dimensional Dirac equation with non-Hermitian interactions.

[0908.4257]

Relativistic Non-Hermitian Quantum Mechanics

NON-HERMITIAN

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QUANTUM
MECHANICS 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

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advanced

undergraduate and
graduate students
and researchers in
physics, chem-

Non-Hermitian
quantum mechanics -
Wikipedia

We develop
relativistic wave
equations in the
framework of the new
non-Hermitian PT

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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

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also allows for models that have no counterpart in conventional quantum mechanics.

Relativistic Non-Hermitian Quantum Mechanics

look into the time evolution of quantum system etc. In this work, we intend not only to provide an

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Quantum
Mechanics

outline of relativistic and quasi-Hermitian quantum mechanics but also to show how the theory of quasi-Hermitian operators can be applied in deeper exploration of Klein-Gordon equation.

Optical Realization of
Relativistic Non-
Hermitian Quantum ...

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Relativistic Non Hermitian

:) Quantum field theory is the quantum theory of field operators. Relativistic quantum mechanics is the quantum theory of processes that are (at least approximately) Poincare invariant. Relativistic quantum field theory is the intersection of these theories. that are

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covariant under the
Poincare group.

NON-HERMITIAN
QUANTUM
MECHANICS - Assets
Non-relativistic
quantum mechanics
refers to the
mathematical
formulation of
quantum mechanics
applied in the context
of Galilean relativity,

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Relativistic Non Hermitian

more specifically
Quantum
Mechanics
quantizing the
equations of classical
mechanics by
replacing dynamical
variables by
operators. Relativistic
quantum mechanics
(RQM) is quantum
mechanics applied
with special relativity.

QFT vs. Relativistic
quantum mechanics |

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Physics Forums

Quantum
mechanics diagrams starting

from relativistic wave
equations. This

approach lacks math-
ematical rigor, but is

more intuitive. We

start by reviewing the
most important

principles of non-

relativistic quantum

mechanics. 2

Schrödinger equation

The wave equations

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Relativistic Non
Hermitian
cannot be derived
Quantum
from the laws of
Mechanics
classical mechanics.

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