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Quantum Mechanics.
Background Why study relativistic quantum mechanics? 1 Many experimental phenomena cannot be understood within purely non-relativistic domain. e.g. quantum mechanical spin, emergence of new subatomic particles, etc.

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course COURSE

OUTLINE Dirac and Klein-Gordon equations, Lorentz and Poincare groups, Fundamental processes of Quantum Electrodynamics.

COURSE DETAIL ...

Lecture 22 -

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Universität Tübingen

Winter Semester

2018/19. 2. ... 1.1

Basics of non-

relativistic quantum

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function. Our

discussion takes place

in the Schrödinger

picture of QM.

Lecture Notes Wave Equations of Relativistic Quantum Mechanics

There will be a two-

hour exercise session

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every week. The schedule of the exercise sessions will be determined during the first lecture on Tuesday, November 3, with the participation of the students. References . The principal reference for the course is the book "Relativistic Quantum Mechanics" by J.D. Bjorken and S.D. Drell, chapters 1 ...

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Relativistic
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Lecture 1: Introduction,
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Lecture Details.

Relativistic Quantum
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Apoorva D

Patel, Department of
Physics, IISc

Bangalore. For more
details on NPTEL visit
<http://nptel.ac.in>. ...

22. Classification of one
particle states, The

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little group, Mass, ...

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Combining special relativity and quantum mechanics. One approach is to modify the Schrödinger picture to be consistent with special relativity.. A postulate of quantum mechanics is that the time evolution of any quantum system is given by the

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Schrödinger equation:
 $\partial \partial = \hat{H}$ using a suitable
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corresponding to the
system. The solution is
a complex-valued
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elements of which
satisfy this condition, is
called $O(3,1)$. This set
is identical with the set
of all Lorentz
transformations L . We
want to show now $L =$
 $O(3,1) \hat{=} GL(4, R)$ is a
group. To simplify the
following proof of the
key group properties
we like to adopt the
conventional matrix
notation for L $L = (L) =$
 $0 \dots$

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3. Fourier Transforms

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Space 20 2. Review of

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Oscillator 22 3. An

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Lecture Notes in
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Doron Cohen. This
book covers the
following topics: The
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Scattering theory,
Quantum mechanics in
practice, Dynamics and
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this course sequence
will include classical
mechanics, quantum
mechanics, the general
and special theories of
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Wednesday, April 30th,
2008 We know that the

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Schrödinger equation
logically "replaces"
Newton's second law
(if we insist on a strict
classical to quantum
correspondence), in
the sense that it is an
equation that governs
massive particle time-
evolution for quantum
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electron was the first successful attack on the problem of relativistic quantum mechanics. Dirac founded quantum field theory with his reinterpretation of the Dirac equation as a many-body equation, which predicted the existence of antimatter and matter-antimatter annihilation.

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