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mechanics hasn't
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presume a

familiarity with
basic

undergraduate

concepts in

statistical

mechanics, and

with some basic

concepts from

first-year

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quantum, such as

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harmonic
oscillators and
raising and

lowering

operators. Some

of the material

in Chapter 3

involves time-

dependent

perturbation

theory, which is

described in the

notes here, but

the ...

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9.2 Quantum
systems with
many indistinguishable particles
[This section is
about quantum
mechanics.

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encountered some
of these ideas
in 8.04, and
will discuss
this further in
8.05. We'll come
back in
subsection 9.4
and think about
when this
business reduces
to classical
mechanics.]
Consider two

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particles.
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VI. Quantum
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Mean field
theory of
condensation,
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point behavior
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L20: Dilute
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thermodynamics,
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undergraduates.
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the fundamentals
of the subject,
the course
covers classical
gases, quantum
gases and phase
transitions.

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Some of the key motivators of quantum theory came from statistical mechanics. I know you have a broad range of stat mech backgrounds, so I will try to

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make this self-contained. I want to get to the point where you can understand the relevant mysteries, and how quantum mechanics solves them.

Teaching |
Matthew D.

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Statistical
mechanics is the
mechanics of
large bodies
using
statistical
methods.

Classical
mechanics is
Newton's great
plan of

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kinematics. A large number of bodies means a lot of degrees of freedom (DoFs). The system is large if it is consisting of Avogadro's number of particles. That being said, we would study DoFs

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of the order
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or "coarse
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statistics ...

So last lecture,
what we talked
about was
limitations of
classical
statistical
mechanics, and

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Statistical Mechanics

what I will
contrast with
what I will talk
about today,
which is new
version. The old
version of
quantum
mechanics, which
was based on the
observation
originally from
Planck, and then
expanded by

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Einstein, that for a harmonic oscillator, a frequency ω , the energies cannot take all values.

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[arXiv: quant-ph/0605180].

Some additional topics are covered, including: introduction to master equations; non-equilibrium processes;

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theorems; linear
response theory;
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expect that we

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