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quantum field theory (QFT) is a theoretical framework that combines classical field theory, special relativity and quantum mechanics, but not general relativity's description of gravity.

Quantum field theory - Wikipedia

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the ...
Quantum Field Theory. First published Thu Jun 22, 2006; substantive revision Mon Aug 10, 2020. Quantum Field

Theory (QFT) is the mathematical and conceptual framework for contemporary elementary particle physics. It is also a framework used in other areas of theoretical physics, such as condensed matter physics and statistical mechanics.

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(Stanford Encyclopedia of Philosophy)

Why Quantum Field Theory is Hard The quantum field is a

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complicated object. In part this is because it contains all of physics: the field can describe vast numbers of particles, interacting in a myriad of different ways. Yet, even before we get to these difficulties, there is another reason that quantum field theory is hard.

David Tong -- What is Quantum Field Theory?

This quantum field theory could be used to model important processes such as the emission of a photon by an electron dropping into a quantum state of lower energy, a process in which the number of particles changes—one atom in the

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initial state becomes an atom plus a photon in the final state. It is now understood that the ability to describe such processes is one of the most important features of quantum field theory.

History of quantum field theory - Wikipedia

Quantum field theory (see the entry on quantum field theory) deals with systems with infinitely many degrees of freedom. For such systems, the algebra of observables that results from imposing canonical commutation relations admits of multiple Hilbert-space representations that are not

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unitarily equivalent to each other.

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Consciousness (Stanford

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of the essential physical phenomena requires the consideration of the collective effects of a large number of degrees of freedom. Quantum Field Theory is the tool as well as the language that has been developed to describe the physics of problems in such apparently dissimilar fields. Physics 583 is the second half of a two-semester

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theory for elementary particles. In it, fields are grouped together using symmetries (Lorentz and gauge) in what are called multiplets. Because of it, it is not clear how to count the number of quantum fields there are in it. For example, we can count for each multiplet how many real degrees of freedom it has.

particle physics - How many quantum fields are there ...

Quantum field theory, body of physical principles combining the elements of quantum mechanics with those of relativity to explain the behaviour of subatomic particles and their

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interactions via a variety of force fields. Two examples of modern quantum field theories are quantum electrodynamics, describing the interaction of electrically charged particles and the electromagnetic force, and quantum chromodynamics, representing the interactions of quarks and the strong force.

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to a world of fields. A
world in which there sits an
underneath reality, which
undulates and condenses in a
way that it creates what we
think to be things.

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methods in a physical
setting, providing deeper
understanding of concepts
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new fundamental concepts
which could change our view
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ticles. One of the most

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systems is particle

condensation. We can think

of particle condensed states

as special ground states

where all the particles are

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Standard Model, Srednicki

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Peskin & Schroeder An Introduction to Quantum Field Theory will be useful books for the course, although our approach will initially be rather different. Many further suggestions for further reading are given in the first chapter of the Lecture Notes.

David Skinner -- Advanced Quantum Field Theory ...

Quantum Field Theory by Srednicki focusses on the standard particle physics approach; and Statistical Physics of Fields by Kardar approaches the topic from the statistical mechanical point of view. Please note

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