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Formulation of QFT.

The crucial step

towards quantum field

theory is in some

respects analogous

to... 2.2 Interaction.

Up to this point, the

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aim was to develop a
free field theory.

Doing so does not
only neglect... 2.3

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Theory requires

serious knowledge of
quantum mechanics

at graduate or

advanced

undergraduate level.

Besides the QM

basics — like knowing

how to solve the

hydrogen atom — you

must be familiar with

the multi-oscillator

systems, the

rotational symmetry

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foundations are shaky

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are operator ...

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Even before we get to
these difficulties,
there is another
reason that quantum
field theory is hard.

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*David Tong -- What is
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this first lesson in
quantum field theory,
let's imagine, for a
moment, that you are

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a five-year-old child. You, the child, are talking to an adult, who is giving you one of your first lessons in science. Science, says the adult, is mostly a process of figuring out what things are made of.

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black body (any
object capable of
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fields. Canonical
quantisation and path
integrals are two
common formulations
of QFT.

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is the basic
mathematical
language that is used
to describe and
analyze the physics of

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