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In theoretical physics,
quantum geometry is the
set of mathematical
concepts generalizing
the concepts of
geometry whose
understanding is
necessary to describe
the physical phenomena

at distance scales comparable to the Planck length. At these distances, quantum mechanics has a profound effect on physical phenomena.

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a quantum mechanical system formed a projective geometry—the

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This view, which is
essentially geometric
and relies on the
concept of symmetry,
leads most naturally to
the fundamental
questions that are the
basis of all attempts to
understand the world of
atomic and subatomic
particles. The

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In ordinary quantum
field theory, lengths and
distances are defined
with respect to a (flat)
spacetime metric, which
is part of the fixed
background structure.
One simply has.
$\Box\Box(x)\Box(y)\Box=f(|x-y|)$, (25)
where $|x\Box y|$ is the
invariant spacetime

distance between the spacetime points x and y.

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Spacetime from bits

Mark Van Raamsdonk

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Quantum states of an ordinary nongravitational system.

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