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marries the ideas of
other quantum theories
to depict all particles as
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Physicist Paul Dirac
started the ball ...

What is quantum field
theory?

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is a numerical method
that can be used to
determine or constrain
the scattering
amplitudes of particles
in quantum field theory
using simple principles.
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environment. The
discovery was published

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Theory
in the journal Physical
examination d In the
last week.

Black holes bring a new
surprise to science: they
exert pressure

Black holes remain a
fascinating cosmic
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them out something else
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theoretical work

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Black Holes May Exert
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Quantum Physics

In new research, researchers show that black holes are complex thermodynamic systems, with not only a temperature but also a pressure.

Static Black Holes Exert Pressure on Their Environment, Scientists

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Melanie Mitchell, the Davis professor of complexity at the Santa Fe Institute, has worked on digital minds for decades. She says AI will never truly be “ intelligent ” until they can do something ...

The Bridge Between
Math and Quantum
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quantum mechanics and quantum field theory.

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Uniting quantum mechanics and special relativity, it describes the interactions involving electrically charged particles through the ...

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On the theoretical side,
quantum mechanics was
soon superseded by

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quantum field theory, where the fields are also quantized. To describe electromagnetism, a gauge group known as $U(1)$ was ...

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have opportunities to carry out research in: classical and quantum gravity, quantum field theory, quantum information theory, string theory, ...

Martin A. Fisher School
of Physics

Stephen Wolfram,
inventor of the Wolfram
computational language
and the Mathematica

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Theory, announced that he may have found a path to the holy grail of physics: A fundamental theory of everything.

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