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the quantum vacuum state is the quantum state with the lowest possible energy.

Generally, it contains no physical particles. Zero-point field is sometimes used as a synonym for the vacuum state of an individual quantized field. According to present-day understanding of what is called the vacuum state

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or the quantum vacuum,
it is "by no means a
simple empty space".

According to quantum
mechanics, the vacuum
state is not truly empty
but instead contains
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negative energy.

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That picture isn't quite accurate when quantum mechanics is taken into account. Emptiness turns out to be an

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