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UNIVERSE SPLITTER

Secret: Entanglement

There aren't separate wave functions for each particle. There is only one wave function: the wave function of the universe.

Schrödinger's Cat, Everett version: no collapse, only one wave function

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Why must we quantize gravity?

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Where do the infinities come from?

String theory and LQG

Great course on Wondrium!

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A thought experiment in quantum mechanics - Chad Orzel by TED-Ed 8,122,775 views 9 years ago 4 minutes, 38 seconds - Austrian physicist Erwin Schrödinger, one of the founders of **quantum mechanics**, posed this famous question: If you put a cat in a ...

What animal takes part in schrödinger's most famous thought experiment?

Does schrodinger's cat exist?

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Program introduction

Marcelo Gleiser introduction

Unification of electricity and magnetism

Unification of space and time

Einstein's General Theory of Relativity

Standard model of particle physics

Supersymmetry

The Island of Knowledge

Godel's Incompleteness Theorems

String Theory explainer film

Michael Dine introduction

Supersymmetry and the spectrum of particles

Large Hadron Collider

Extra dimensions of space

Dark energy and multiple universes

Progress since the 1980s and the future of particle physics

Andrew Strominger introduction

Einstein and black holes

The black hole information paradox

Stephen Hawking's insights into black holes

Using string theory to understand black holes

Conformal symmetry

Andrew Strominger's view of string theory

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Evidence and detection of black holes

Approaching a black hole

The black hole in Interstellar

Modern imaging of black holes

Gravitational waves

Black holes and quantum theory

New quantum perspectives

Black holes as giant hard drives

Real quantum computers?

Quantum errors

Black holes and error correction

From black holes to quantum computing

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Is String Theory Crazy?

Why am I in London?

String Theory and Quantum Field Theory differences

Why bother with String Theory?

Why does a graviton need to have no mass and spin 2

Why no Graviton in Quantum Field Theory?

String Theory solves quantization of gravity

Similarity and differences between QFT and String Theory

Why does String Theory need extra dimensions

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Half Angle Formula

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