

Black Holes The Membrane Paradigm

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Black Holes The Membrane Paradigm

In black hole theory, the black hole membrane paradigm is a simplified model, useful for visualising and calculating the effects predicted by quantum mechanics for the exterior physics of black holes, without using quantum-mechanical principles or calculations. It models a black hole as a thin, classically radiating surface at or vanishingly close to the black hole's event horizon. This approach to the theory of black holes was created by Kip S. Thorne, R. H. Price and D. A ...

Membrane paradigm - Wikipedia

The physics of black holes is explored in terms of a membrane paradigm which treats the event horizon as a two-dimensional membrane embedded in three-dimensional space. A 3+1 formalism is used to split Schwarzschild space-time and the laws of physics outside a nonrotating hole, which permits treatment

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of the atmosphere in terms of the physical properties of thin slices.

Black holes: The membrane paradigm - NASA/ADS

Black Holes: The Membrane Paradigm. Black Holes. : This pedagogical introduction to the physics of black holes emphasizes the "membrane paradigm", which translates the mathematics and physics of black holes into a form accessible to readers with little knowledge of general relativity but a solid grounding in nonrelativistic physics.

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In black hole theory, the black hole membrane paradigm is a simplified model, useful for visualising and calculating the effects predicted by quantum mechanics for the exterior physics of black holes, without using quantum-mechanical principles or calculations.

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must fall through the horizon into the hole. In the membrane paradigm the black hole is pictured in ordinary, three-dimensional space as a spheroidal membrane that has the same circumference as the horizon of curved spacetime. The spheroid is flattened because the hole is rotating. Photons (blue) can hover on the membrane, where they are

The Membrane Paradigm for Black Holes - JSTOR

In the 1960s and early 1970s most theoretical research on black holes was devoted to understanding their fundamental properties: Does the gravitational collapse of a star with weak, generic... The Membrane Paradigm for Black-Hole Astrophysics | SpringerLink

The Membrane Paradigm for Black-Hole Astrophysics ...

The membrane paradigm sees the black hole in terms similar to those of a neutron star, which resembles a permanent magnet. The choice of 'fiducial observers' for the membrane paradigm proceeds according to strict mathematical rules.

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Black Holes: The Membrane Paradigm (The Silliman Memorial ...

The idea of the membrane paradigm is that the interactions of a black hole with particles and fields outside the hole can be modeled by treating the surface or horizon of the black hole as a...

Quantum Mechanics of Black Holes | Science

The membrane paradigm for black holes was invented to understand some of these aspects and demystify the characteristics of the black hole and to describe the associated physics as one would for “ordinary bodies”. Claim: the internal dynamics of a black hole can be modeled effectively as a membrane with electromechanical properties.

The black hole membrane paradigm redux

A pedagogical introduction to the physics of black holes. The membrane paradigm represents the four-dimensional spacetime of the black hole's "event horizon" as a two-dimensional membrane in three-dimensional space, allowing the reader to understand and compute the behavior of black holes in complex astrophysical environments.

Black holes : the membrane paradigm (Book, 1986) [WorldCat ...

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Black Holes: The Membrane Paradigm by Kip S. Thorne

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Black Holes: The Membrane Paradigm | K. S. Thorne, R. H ...

[16] R. F. Penna, Black hole jet power from impedance matching, Phys. Rev. D 92, 084017 (2015). PRVDAQ 1550-7998 10.1103/PhysRevD.92.084017 [17] T. Wang, Cosmological horizons as new examples of membrane paradigm, Classical Quantum Gravity 32,

Black hole mass formula in the membrane paradigm

The membrane paradigm provides a simple formalism to study macroscopic properties of horizons by replacing the true mathematical horizon by a stretched horizon, an effective time-like membrane located roughly one Planck length away from the true horizon. Finiteness of the black hole entropy suggests that between the actual black hole horizon] = °

Membrane Paradigm, Gravitational -Term and Gauge/Gravity ...

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