

Black Holes The Membrane Paradigm

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Black Holes The Membrane Paradigm

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.

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

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. Macdonald.

Membrane paradigm - Wikipedia

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.

Black Holes: The Membrane Paradigm by Kip S. Thorne

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 (or membrane) at or vanishingly close to the black hole's event horizon.

Membrane paradigm - WikiMili, The Free Encyclopedia

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 be

The Membrane Paradigm for Black Holes - JSTOR

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

Black holes: The membrane paradigm - NASA/ADS

The membrane paradigm is useful on a practical level for understanding black hole jets. However, it may also be related to fundamental physics through holography and AdS/CFT. This suggests new opportunities for interactions between fundamental physics and astrophysics.

Spinning Black Holes and the Membrane Paradigm | Perimeter ...

The Membrane Paradigm for Black Holes The entropy of an ordinary body like Earth or the Sun is basically a volume integral; to compute the entropy, one computes the entropy density and integrates...

Quantum Mechanics of Black Holes | Science

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.

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In astrophysics the membrane paradigm has been used extensively as an ecient compu- tational tool to study phenomena in the vicinity of black holes (see [4{9] and references therein). The membrane paradigm has also been able to provide crucial hints about details of the microscopic physics of horizons.

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

A pedagogical introduction to the physics of black holes. The membrane paradigm represents the four-dimnsonal 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 (The Silliman Memorial ...

This book presents a nice overview of the black hole membrane paradigm. As another reviewer mentioned, if you're looking for full derivations of some of the equations presented (such as the 'focusing' equations), or a detailed discussion/derivation of gauge invariant variables you'll need to go to the references cited.

Amazon.com: Customer reviews: Black Holes: The Membrane ...

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.

Black holes: the membrane paradigm (Book) | OSTI.GOV

NatIFest - September 16, 2016 "The Large D Black Hole Membrane Paradigm" by Shiraz Minwalla www.sns.ias.edu For more videos, visit http://video.ias.edu.

The Large D Black Hole Membrane Paradigm - Shiraz Minwalla

Black Holes: The Membrane Paradigm by Douglas A. MacDonald, Paperback | Barnes & Noble® This pedagogical introduction to the physics of black holes emphasizes the "membrane paradigm", which translates the mathematics and physics Our Stores Are Open Book Annex Membership Educators Gift Cards Stores & Events Help

Black Holes: The Membrane Paradigm by Douglas A. MacDonald ...

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.

The membrane paradigm for black holes - NASA/ADS

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.

Black Holes | Yale University Press

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.

The Little Book Of Black Holes | Download eBook pdf, epub ...

A pedagogical introduction to the physics of black holes. The membrane paradigm represents the four-dimnsonal 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 - Kogan.com

Hawking radiation around a black hole described as conventional radiation from a fictitious membrane at radius r=2M (the black hole membrane paradigm); frame-dragging around a rotating star considered as the effect of space being a conventional viscous fluid.