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Paradigm

Membrane  
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Stephen Hawking  
explains black

holes in 90 seconds

- BBC News What is  
a Black Hole? -

Stephen Hawking's  
final theory Black  
Holes Explained for  
Kids! Black Holes

~~The Physics of~~

~~Black Holes with~~

~~Chris Impey~~

~~Episode 27: Janna~~

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~~Levin on Black  
Holes, Chaos, and  
the Narrative of  
Science The Black  
Hole: Based on  
Professor Stephen  
Hawking's Reith  
Lecture~~

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David Wallace:  
Why Black Hole  
Information Loss...  
The Most Powerful  
Black Holes in the  
Universe 4k ~~Black~~

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~~Holes 101 |~~

~~National~~

~~Geographic~~

StarTalk Podcast:

Cosmic Queries -

Black Hole Survival

Guide What If Two

Black Holes

Collided? 5

Theories About The

Universe That Will

Blow Your Mind ~~The~~

~~Physics and~~

~~Philosophy of Time~~

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~~with Carlo Rovelli~~

~~Birth of a Black  
Hole 4K Quantum  
velden: de echte~~

~~bouwstenen van  
het universum -~~

~~Met David Tong~~

~~What If You Fell~~

~~Into a Black Hole?~~

~~Stephen Hawking -~~

~~Black Hole Time~~

~~TravelCracking~~

~~Ancient Codes:~~

~~Cuneiform Writing~~

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~~with Irving Finkel~~  
~~The Largest Black~~  
~~Holes in the~~  
~~Universe What's~~  
~~Inside A Black~~  
~~Hole? | Unveiled~~  
Scientific

Controversies:

Black Holes

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Quantum Gravity  
and the Hardest  
Problem in Physics  
| Space Time

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Darkness Visible:



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Shedding New  
Light on Black  
Holes

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Burping Black  
Holes - Sixty  
Symbols

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The Holographic  
Universe Explained

---

Black Holes for Kids  
| Event Horizon  
Telescope M87

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Why Black Holes  
Could Delete The  
Universe - The

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### Information

~~ParadoxIs the  
universe a  
hologram? The~~

~~strange physics of  
black holes |~~

~~Michelle Thaller |~~

~~Big Think Black~~

Holes The

Membrane

Paradigm

This pedagogical  
introduction to the  
physics of black

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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

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Holes. The

Membrane

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

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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

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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

Black Holes: The

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Notes The  
Membrane  
Paradigm

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

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knowledge of  
general relativity  
but a solid  
grounding in  
nonrelativistic  
physics.

Black Holes: The  
Membrane  
Paradigm by Kip S.  
Thorne

must fall through  
the horizon into the  
hole. In the



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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 cause  
the hole is rotating.

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Photons (blue) can hover on the membrane, where they are

The Membrane Paradigm for Black Holes - JSTOR

The membrane paradigm for black holes was invented to understand some of these aspects and

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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

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Holes The  
properties.

## Membrane

The black hole  
membrane

paradigm redux

Abstract. The  
physics of black  
holes is explored in  
terms of a  
membrane  
paradigm which  
treats the event  
horizon as a two-  
dimensional

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membrane  
Holes The  
Membrane  
Paradigm  
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

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Holes: The physical properties of thin slices.

## Membrane

Paradigm: Black holes: The

membrane

paradigm -

NASA/ADS

This pedagogical introduction to the

physics of black holes emphasizes

the "membrane paradigm", which

translates the

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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. This is accomplished without resort to approximations or

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Holes The  
loss of content.

## Membrane

Paradigm  
Black Holes: The  
Membrane

Paradigm - Google  
Books

The membrane  
paradigm  
represents the four-  
dimensional  
spacetime of the  
black hole's "event  
horizon" as a two-  
dimensional



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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

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Holes The

...  
It was shown in  
arXiv:2006.16163  
Paradigm  
that the effective

stationary  
membrane  
equations from the  
large  $D$   
membrane  
paradigm at the  
first order admit  
black ring so...

de Sitter Static

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Holes The  
Membrane  
Paradigm ...  
Quantum

Mechanics of Black  
Holes Black Hole  
Entropy and  
Hawking Radiation.  
Now let us go back  
to the conflict  
between black  
holes and quantum  
mechanics. Black  
Holes and the Rest

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Holes. Is the  
quantum theory of  
black holes just a  
theoretical

construct, or can  
we test... The  
Membrane  
Paradigm for ...

Quantum  
Mechanics of Black  
Holes | Science  
In the "membrane  
paradigm", the

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Holes The  
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black hole is described as it should be seen by an array of these stationary, suspended noninertial observers, and since their shared coordinate system ends at the event horizon (because an observer cannot legally hover at or

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Below the event horizon under general relativity), this conventional-looking radiation is described as being emitted by an arbitrarily-thin shell of "hot" material at or just above the event horizon, where this coordinate system fails.

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Holes The

Membrane  
paradigm -

Infogalactic: the  
planetary

knowledge core

NatiFest -

September 16,

2016 "The Large D

Black Hole

Membrane

Paradigm" by

Shiraz Minwalla

[www.sns.ias.edu](http://www.sns.ias.edu)

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## Paradigm

The Large D Black  
Hole Membrane  
Paradigm - Shiraz  
Minwalla

The membrane  
paradigm  
represents the four-  
dimensional  
spacetime of the  
black hole's "event



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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

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paradigm (Book, 1986) [WorldCat ...

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

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knowledge of  
general relativity  
but a solid  
grounding in  
nonrelativistic  
physics.

Black Holes: The  
Membrane  
Paradigm by  
Douglas A.  
MacDonald ...  
In astrophysics the  
membrane

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paradigm has been used extensively as an efficient computational 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

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hints about details  
of the microscopic  
physics of horizons.

## Paradigm

Membrane  
Paradigm,  
Gravitational -Term  
and Gauge/Gravity

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This pedagogical  
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physics of black  
holes emphasizes  
the "membrane

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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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Black Holes | Yale University Press  
The Membrane Paradigm  
Paradigm for Black Holes. How can one picture the interaction of a hole in spacetime with the matter and fields of its environment? It is fruitful to conceive of the black hole as an...

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membrane  
paradigm for black  
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Time Warps:  
Einstein's  
Outrageous Legacy  
(Commonwealth  
Fund Book  
Program) The Rise



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Black Hole  
Membrane  
Paradigm

Astronomy and

Astrophysics

Abstracts High

Energy Radiation

from Black Holes

Black Holes A

Holographic

Journey from Fluids

to Black Holes

Black Holes Black

Holes in Higher

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Dimensions Black  
Holes Quantum  
Membrane  
Aspects of Black  
Paradigm  
Holes Einstein  
Gravity and Beyond  
Black Holes and  
Time Warps  
Hawking Radiation  
Black Holes (IAU  
S238) Black Holes  
Black Holes: Theory  
and Observation  
Epistemology of  
Experimental

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Gravity - Scientific  
Rationality

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