

The Future Of Spacetime

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What Is Spacetime Really Made Of?

Some cosmologists believe a dark empty universe like the one which lies in our far future could have been the source of the Big Bang.

How Could the Big Bang Arise From Nothing?

My understanding is that nothing comes from nothing. For something to exist, there must be material or a component available, and for them to be available, there must be something else available. Now ...

The Big Bang: How Could Something Come From Nothing?

Black holes are intriguing and widely studied cosmic bodies with extremely high tidal forces, from which even light is unable to escape. While many studies predicted the existence of black holes, ...

Study finds that black hole inner horizons can be charged or discharged

Instead, the fabric of spacetime is expanding ... First, it invalidates travel to the future, since there is actually no future yet to travel to. Travel to the past is also next to impossible ...

The Physics of Time: Why Time Travel May Be Impossible

if and only if time-like curves in the effective spacetime can be extended to the atemporal region in the past, but not in the future, effective direction. (Or the converse if the atemporal region ...

The (A)temporal Emergence of Spacetime

Oxford philosopher Nick Bostrom ' s simulation argument hypothesizes that we ' re either in a simulation now, or people in the future aren ' t as discrete chunks of " spacetime. " ...

Did the world actually end in 2012?

The " ripples " in spacetime detected by LIGO were the result ... newsletter to keep in touch with the subjects shaping our future. I understand and agree that registration on or use of this ...

The Nobel Prize Was Just Awarded for the Discovery Of " Ripples " in Spacetime

In a dual set of papers published in Science last week, an international group of researchers presented an experiment which used relativistic time dilation to measure the curvature of spacetime. The ...

Researchers Measure the Curvature of Spacetime with Time Dilation

As we await the launch of the James Webb Space telescope, it ' s timely to look back on what previous generations of telescopes have shown us.

Five of the most exciting telescope pictures of the universe

The results of a comprehensive search for a background of ultra-low frequency gravitational waves has been announced by an international team of astronomers including scientists from the University of

...

International collaboration offers new evidence of a gravitational wave background

These light-year-scale ripples, a consequence of Einstein ' s theory of general relativity, permeate all of spacetime and could originate from mergers of the most massive black holes in the Universe or ...

University of Birmingham: International collaboration offers new evidence of a gravitational wave background

Inspector Spacetime materialise unexpectedly in the middle of the ... “ Yeah, ” laughs Vaka, “ they were riding the barricades with their phones! ” The idea of future celebrity might take a while to ...

Artist Of The Year: Inspector Spacetime

The essential idea is perfectly straightforward: Spacetime is a curved pseudo-Riemannian manifold with a metric signature of $(-+++)$ and the relationship between matter and the curvature of spacetime ...

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