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An astronaut takes a long space journey at close to light speed. The astronaut's twin sister remained on Earth. On a return to Earth, what is the astronaut's age compared to her earthbound twin? A ...

Special relativity test questions

Not only does Scott present exquisitely detailed solutions to Schutz's exercises, he also proposes a large number of his own problems to further test the ... *First Course in General Relativity* ...

A Student's Manual for A First Course in General Relativity

Yes, and you're doing it right now – hurtling into the future at the impressive rate of one second per second. You're pretty much always moving through time at the same speed, whether you're watching ...

Is time travel possible?

(Inside Science) -- Just six years ago, scientists with the Laser Interferometer Gravitational-Wave Observatory, or LIGO, in Louisiana and Washington measured a unique undulating signal when the ...

Tests of General Relativity with Gravitational Waves Can Go Awry

either to accompany a course in gravitational physics, or for other studies of gravitation in the frame of general relativity with a special focus on possible and actually performed tests, their ...

Theory and Experiment in Gravitational Physics

You could look at immortality as a very big puzzle. I am interested in it because my grandparents suffer from heart disease. I want to help them and I want to help other kids so they don't have to ...

'I'm 11, I Have a Physics Degree And Want To Make Humans Immortal'

Albert Einstein's theory of special relativity explains how space ... much the mass of an object curves space-time. Scientists test relativity by observing objects in space and seeing if their ...

Theory of Relativity

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one of the main attractions was the possibility to do new and more stringent tests of general relativity," says Riccardo Buscicchio, a PhD student at the School of Physics and Astronomy ...

When testing Einstein's theory of general relativity, small modeling errors add up fast

Half the fun of getting vintage test equipment is getting to open ... According to the video, you can simplify special relativity to saying that time slows down if you go fast – that is known ...

Cesium Clock Teardown, Or Quantum Physics Playground

Evan Erickson is one of five U.S. teens to qualify for the annual International Physics Olympiad, the biggest secondary school physics competition in the world.

Minnesota teen math whiz makes U.S. physics team, will compete for world title

The letter's recipient, Polish-American physicist Ludwik Silberstein, wrote one of the first English-language textbooks on relativity—a theory that encompasses both the special theory of ... a ...

News at a glance

Conscious that this article does not become a science lecture, I won't go into the details but suffice to say the theory of relativity has completely transformed theoretical physics and ...

25 Best Quotes from Albert Einstein

The list includes four faculty members from MIT: Riccardo Comin of the Department of Physics; Netta Engelhardt of the Department ... "We now rely on special algorithms that can perform computationally ...

Four MIT faculty members receive 2021 US Department of Energy early career awards

Short answer ... theory of special relativity in 1905. Along with his later expansion, the theory of general relativity, it has become one of the foundational tenets of modern physics.

Is time travel possible?

Each new measurement helps physicists test general relativity, and if they show deviations that point to physics that go beyond ... universe's speed limit in violation of special relativity.

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