

Cosmic Rays And Earth

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Cosmic Rays And Earth

It's hard to miss a flashlight beam pointed straight at you. But that beam viewed from the side appears significantly dimmer. The same holds true for some cosmic objects: Like a flashlight, they ...

Seeing some cosmic X-ray emitters might be a matter of perspective

Although meant to minimize risks to human health, the proposed new limits would still be exceeded by any conceivable near-future crewed voyage to Mars ...

New Space Radiation Limits Needed for NASA Astronauts, Report Says

Scientists have used data from the Southwest Research Institute-led Magnetospheric Multiscale (MMS) mission to explain the presence of energetic heavy elements in galactic cosmic rays (GCRs). GCRs are ...

The mystery of heavy elements in galactic cosmic rays

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SwRI-led team addresses mystery of heavy elements in galactic cosmic rays

More solar exploration missions are on the way. The discovery of the IBEX Ribbon, which is invisible to both telescopes and the human eye, was one of scientists' first forays into understanding more ...

The solar wind bubble that protects Earth has been mapped for the first time

Richmond-based Earth 'x-ray' start-up Ideon Technologies and French Orano Group (Orano), one of the top world uranium producers, have deployed the world's first cosmic-ray muon detector for use in ...

Richmond-based Earth 'X-Ray' Start-Up Ideon Technologies and Orano Deploy World's First Borehole Muon Tomography Solution

In the late 1940s, the US Naval Research Laboratory used a few German-built V2 rockets to study cosmic rays from above Earth's atmosphere. To do this, a nitrogen-powered cloud chamber was ...

Researching Cosmic Rays With Cloud Chambers

The Earth is constantly being bombarded by high-energy particles popularly known as cosmic rays that are streaming in from the outside the solar system. We're not troubled by them on the surface ...

ESA uses spacecraft "housekeeping" data to measure cosmic rays

"This is what's so exceptional about this gamma-ray burst - it happened in our cosmic backyard where the ... with background light on their way to Earth, as it happens over larger distances ...

One of the brightest explosions ever recorded occurs in Earth's 'cosmic backyard'

Therefore, it is important to understand space weather phenomena and their impact on the Earth. Space weather research by continuous observation of cosmic rays on the ground is mainly conducted ...

Cosmic rays: Coronal mass ejections and cosmic ray observations at Syowa Station in the Antarctic

Left unchecked, radiation can trigger all sorts of health issues, most notably boosting an astronaut's danger of developing cancer. So, when NASA plans missions, the agency uses a ...

NASA wants to change the way it protects astronauts from radiation

However, by cosmic standards the supernova remnant ... and matter around black holes. Because X-rays are absorbed by Earth's atmosphere, Chandra must orbit above it, up to an altitude of 86,500 ...

Beware the cosmic hand! Light from an amazing supernova explosion that looks like an arm reaching into space got to Earth about 1,700 years ago at time of the Mayans ...

Once again, NASA's Chandra X-Ray Observatory has gifted us with some ... ghostly hand moving through space to hit a wall of red cosmic gas. Oooh, pretty! Image credit: NASA/SAO/NCSU/Borkowski ...

17,000 Light-Years From Earth, A Ghostly Cosmic Hand Is Hitting A Wall

Join us for National Science week to hear from A/Prof Susanna Gustelli on Radiation protection of astronauts in missions to Mars ...

Life on Mars (with cosmic radiation)

Cosmic rays are particularly challenging because they can cause damage to electronic components if they hit space hardware and can threaten humans in orbit around Earth and on missions deeper into ...

ESA leverages spacecraft "housekeeping" data to learn more about cosmic rays

Korean Air has vowed to help reduce cosmic radiation exposure for its flight crews, to better protect their health. The airlines company's pledge came after a meeting with its union on June 10. The ...

Korean Air to help reduce cosmic radiation exposure for flight crews

Hydrogen atoms prefer to be left alone, but under tremendous pressure within a star, they fuse to form helium, giving off a tiny amount of energy, which begins a powerful chain reaction.

Cosmic Judaism offers a ray of hope to illuminate the darkness | Opinion

Scientists have used data from the Southwest Research Institute-led Magnetospheric Multiscale (MMS) mission to explain the presence of energetic heavy elements in galactic cosmic rays (GCRs). GCRs are ...