

cosmic gamma ray sources pdf

Later experiments have helped to identify the sources of cosmic rays with greater certainty. In 2009, a paper presented at the International Cosmic Ray Conference (ICRC) by scientists at the Pierre Auger Observatory showed ultra-high energy cosmic rays (UHECRs) originating from a location in the sky very close to the radio galaxy Centaurus A, although the authors specifically stated that ...

Cosmic ray - Wikipedia

Natural sources of gamma rays on Earth include gamma decay from naturally occurring radioisotopes such as potassium-40, and also as a secondary radiation from various atmospheric interactions with cosmic ray particles. Some rare terrestrial natural sources that produce gamma rays that are not of a nuclear origin, are lightning strikes and terrestrial gamma-ray flashes, which produce high ...

Gamma ray - Wikipedia

Astronomers have found the gamma-ray-emitting remains of three exploded stars, and the remnants might reveal the origin of cosmic rays. Astronomers are hoping to learn more about the mysterious ...

Gamma-ray Supernova Remnants Shed Light on Cosmic Rays

On the night of October 15, 1991, the "Oh-My-God" particle streaked across the Utah sky. A cosmic ray from space, it possessed 320 exa-electron volts (EeV) of energy, millions of times more than particles attain at the Large Hadron Collider, the most powerful accelerator ever built by humans.

Ultrahigh-Energy Cosmic Rays Traced to Hotspot | Quanta

Un sursaut gamma ou sursaut de rayons gamma (SRG [1] ; en anglais gamma-ray bursts, abrégé en GRB ; quelquefois traduit par « explosion de rayons gamma » [2]) est en astronomie une bouffée de photons gamma qui apparaît de manière aléatoire dans le ciel. Il est caractérisé par sa brièveté (de quelques secondes à quelques minutes) et par la forme particulière de la courbe de lumière.

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