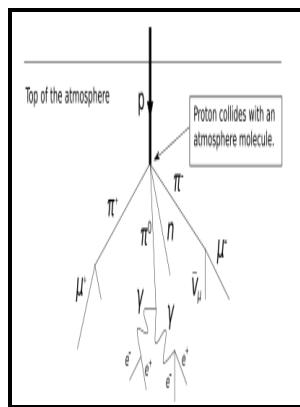


# Cosmic ray physics

## North Holland Pub. - Research Highlights



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- Land -- Venezuela -- Mérida.  
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La Bar, George, 1764?-1875  
Architecture  
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Computer software -- Development.  
Artificial intelligence.  
Expert systems (Computer science)  
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Housing -- New Zealand.  
Cosmic raysCosmic ray physics  
-Cosmic ray physics  
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### Cosmic rays throw up surprises, again

Over time scientists hope to unravel the nature of these mysterious visitors, their origins, and to uncover new knowledge about the universe.

#### [1411.4642] Cosmic Ray Physics

The origin of these anisotropies is still unknown. EGRET Gamma Ray All Sky Survey As the cosmic rays interact with interstellar gas, they can produce gamma rays, which can be seen in the EGRET gamma ray image of the Milky Way galaxy shown above. First, the researchers carried out a control experiment in which they continually injected pre-made small aerosols into the chamber but kept the production of sulphuric acid — which is needed to feed the growing aerosols — constant, without ionization.

#### Celebrating cosmic

The motion of the shock wave, ejected from the Sun, accelerates the wave through the magnetic field. History While cosmic rays were only discovered in the 1900s, scientists knew something mysterious. The showers consist of electrons, positrons and photons.

#### [1411.4642] Cosmic Ray Physics

And, according to the researchers investigating the ANITA and IceCube anomalies, these cosmic ray detections may have opened a window into physics beyond the Standard Model, providing evidence of particles that look like cosmic rays and yet don't behave like cosmic rays. About a fifth of the universe cannot be explored using photon-based telescopes.

#### Cosmic ray physics: Extremely powerful particles are slamming into the Earth.

The turbulent motion of this charged matter produce very strong magnetic field which accelerate the protons towards the earth with a very strong energy.

#### Cosmic Ray Physics

For one thing, he says, tens of kilometres of optical fibre could be used to try and pick up the acoustic and seismic signals that would accompany any incoming nuggets.

## Ultra

But even though accelerators came to provide the best hunting ground for new particles, the physics of cosmic rays is still widely studied. Early on in cosmic history, CP-violating axions would have led to the creation of more nuggets containing antiquarks than those containing quarks. This amount is like receiving a whole-body CT scan every five or six days.

## Research Highlights

With enough phones, Whiteson hopes, he and his colleagues can get a better picture of where cosmic rays come from.

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