

Ֆիզիկայի գիտահետազոտական ինստիտուտ

Գլխավոր գիտաշխատող

📖 Հրատարակումներ

Հոդված

A magnetized Galactic halo from inner Galaxy outflows

Felix Aharonian, He-Shou Zhang, Gabriele Ponti, Ettore Carretti, Ruo-Yu Liu, Mark R. Morris,

Marijke Haverkorn, Nicola Locatelli, Xueying Zheng, Hai-Ming Zhang, Yi Zhang, Giovanni Stel,

Andrew Strong, Michael C. H. Yeung, Andrea Merloni

Nature Astronomy 2025 1416-1428

Հոդված

Acceleration of Ultra-high-energy Cosmic Rays in the Kiloparsec-scale Jets of Nearby Radio Galaxies

Felix A. Aharonian, Jie-Shuang Wang, Brian Reville, Frank M. Rieger

Astrophysical Journal Letters 2025 L20

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Detection of very high-energy gamma-ray emission from Eta Carinae during its 2020 periastron passage

F. Aharonian, V. Sahakian, et al. (HESS collaboration)

Astronomy and Astrophysics 2025 A328

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The H.E.S.S. extragalactic sky survey with the first decade of observations

F. Aharonian, V. Sahakian, et al. (HESS collaboration)

Astronomy and Astrophysics 2025 A261

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Constraining the Cosmic-Ray Energy Based on Observations of Nearby Galaxy Clusters by LHAASO

F. Aharonian, Zhen Cao, et al. 315

Astrophysical Journal Letters 2025 L19

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Broadband γ -Ray Spectrum of Supernova Remnant Cassiopeia A

F. Aharonian, Zhen Cao, et al. 314

Astrophysical Journal Letters 2025 L33

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Possibility of multi-TeV secondary gamma rays from GRB221009A

Felix Aharonian, Oleg Kalashev, Warren Essey, Yoshiyuki Inoue, Alexander Kusenko

Physical Review D 2025 023022

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Very-high-energy γ -Ray Emission from Young Massive Star Clusters in the Large Magellanic Cloud

Aharonian F., et al (HESS collaboration)

Astrophysical Journal Letters 2024 L21

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H.E.S.S. observations of the 2021 periastron passage of PSR B1259-63/LS 2883

F. Aharonian, et al. (HESS collaboration)

Astronomy and Astrophysics 2024 A219

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Search for Synchrotron Emission from Secondary Electrons of Proton-Proton Interactions in Galactic PeVatron Candidate HESS J1641-463

Felix Aharonian, Naomi Tsuji, Takaaki Tanaka, Samar Safi-Harb, S. Safi-Harb, Sabrina Casanova, Roland Kothes, Emmanuel Moulin, Hiroyuki Uchida, Yasunobu Uchiyama

Astrophysical Journal 2024 138

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Spectrum and extension of the inverse-Compton emission of the Crab Nebula from a combined Fermi-LAT and H.E.S.S. analysis

F. Aharonian, et al. (HESS collaboration)

Astronomy and Astrophysics 2024 A308

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Unveiling extended gamma-ray emission around HESS J1813-178

Aharonian F., et al. (HESS collaboration)

Astronomy and Astrophysics 2024 A149

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Curvature in the very-high energy gamma-ray spectrum of M 87

F. Aharonian, et al. (HESS collaboration)

Astronomy and Astrophysics 2024 A96

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TeV flaring activity of the AGN PKS 0625-354 in November 2018

F. Aharonian, et al (HESS collaboration)

Astronomy and Astrophysics 2024 A70

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Naked Forward Shock Seen in the TeV Afterglow Data of GRB 221009A

Felix Aharonian, Dmitry Khangulyan, Andrew M. Taylor

Astrophysical Journal 2024 31

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The contribution of winds from star clusters to the Galactic cosmic-ray population

Felix Aharonian, Giada Peron, Sabrina Casanova, Stefano Gabici, Vardan Baghmanyanyan

Nature Astronomy 2024 530-537

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The hunt for PeVatrons as the origin of the most energetic photons observed in the Galaxy

Felix Aharonian, Emma de Oña Wilhelmi, Ruben López-Coto, Elena Amato, Zhen Cao, Stefano Gabic,

Jim Hinton

Nature Astronomy 2024 p. 425-431

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Acceleration and transport of relativistic electrons in the jets of the microquasar SS 433

F. Aharonian, et al (HESS collaboration)

Science 2024 402-406

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Search of extended emission from HESS J1702-420 with eROSITA

Felix Aharonian, Denys Malyshev, Maria Chernyakova, Andrea Santangelo

Astronomy and Astrophysics 2024 A142

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High-Statistics Measurement of the Cosmic-Ray Electron Spectrum with H.E.S.S.

F. Aharonian, V. Sahakian, et al. (HESS collaboration)

Physical Review Letters 2024 221001

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On the Properties of Inverse Compton Spectra Generated by Upscattering a Power-law Distribution of Target Photons

Felix Aharonian, Dmitry Khangulyan, Andrew M. Taylor

Astrophysical Journal 2023 186

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On the Nature of the Energy-dependent Morphology of the Composite Multi-TeV Gamma-Ray Source J1702-204

Felix Aharonian, Denys Malyshev, Maria Chernyakova

Astrophysical Journal 2023 147

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The Vanishing of the Primary Emission Region in PKS 1510-089

F. Aharonian, V. Sahakian, etc

Astrophysical Journal Letters 2023 L38

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The Formation of Hard Very High Energy Spectra from Gamma-ray Burst Afterglows via Two-zone Synchrotron Self-Compton Emission

Felix Aharonian, Andrew M. Taylor, Dmitry Khangulyan

Astrophysical Journal 2023 87

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Constraining the cosmic-ray pressure in the inner Virgo Cluster using H.E.S.S. observations of M 87

F. Aharonian, V. Sahakian, etc

Astronomy and Astrophysics 2023 A138

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New estimation of the nuclear de-excitation line emission from the supernova remnant

Cassiopeia A

Felix Aharonian, Bing Liu, Rui-zhi Yang, Xin-yu He

Monthly Notices of the Royal Astronomical Society 2023 5248 - 5253

Հոդված

Line profile of nuclear de-excitation gamma-ray emission from very hot plasma

Felix Aharonian, Hiroki Yoneda, Paolo Coppi, Thomas Siegert, Tadayuki Takahashi

Monthly Notices of the Royal Astronomical Society 2023 1460-1470

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Discovery of a radiation component from the Vela pulsar reaching 20 teraelectronvolts

F. Aharonian, V. Sahakian, other 178

Nature Astronomy 2023 1341-1350
