Ֆելիքս Ալբերտի Ահարոնյան

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Ֆիզիկայի գիտահետազոտական ինստիտուտ
Միջուկային ֆիզիկայի և աստղաֆիզիկայի կենտրոն
Գլխավոր գիտական աշխատող

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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

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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

The 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)

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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

The 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

The 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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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

The 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)

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Unveiling extended gamma-ray emission around HESS J1813-178
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Naked Forward Shock Seen in the TeV Afterglow Data of GRB 221009A
Felix Aharonian, Dmitry Khangulyan, Andrew M. Taylor

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

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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TeV flaring activity of the AGN PKS 0625-354 in November 2018
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Search of extended emission from HESS J1702-420 with eROSITA
Felix Aharonian, Denys Malyshev, Maria Chernyakova, Andrea Santangelo

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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)

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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

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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

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The Vanishing of the Primary Emission Region in PKS 1510–089
F. Aharonian, V. Sahakian, etc

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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

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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

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

Feliqs 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
