

## Publications

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*Article*

**Very-high-energy  $\gamma$ -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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*Article*

**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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*Article*

**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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*Article*

**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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*Article*

**Unveiling extended gamma-ray emission around HESS J1813-178**

Aharonian F., et al. (HESS collaboration)

Astronomy and Astrophysics 2024 A149

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*Article*

**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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*Article*

**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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*Article*

**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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*Article*

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

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

Nature Astronomy 2024 530-537

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*Article*

**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 Gabici,

Jim Hinton

Nature Astronomy 2024 p. 425-431

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*Article*

**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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*Article*

**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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*Article*

**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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*Article*

**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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*Article*

**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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*Article*

**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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*Article*

**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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*Article*

**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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*Article*

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

F. Aharonian, V. Sahakian, other 178

Nature Astronomy 2023 1341-1350

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