

Publications

Article

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

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

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

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

Article

Unveiling extended gamma-ray emission around HESS J1813-178

Aharonian F., et al. (HESS collaboration)

Astronomy and Astrophysics 2024 A149

Article

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

F. Aharonian, et al. (HESS collaboration)

Astronomy and Astrophysics 2024 A96

Article

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

F. Aharonian, et al (HESS collaboration)

Astronomy and Astrophysics 2024 A70

Article

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

Felix Aharonian, Dmitry Khangulyan, Andrew M. Taylor

Astrophysical Journal 2024 31

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

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

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

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

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

Article

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

F. Aharonian, V. Sahakian, etc

Astrophysical Journal Letters 2023 L38

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

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

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

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

Article

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

F. Aharonian, V. Sahakian, other 178

Nature Astronomy 2023 1341-1350
