

## H.E.S.S. group publications (January 2015-June 2017)

- [1] H. Abdalla et al. (H.E.S.S. Collaboration). “Characterizing the  $\gamma$ -ray long-term variability of PKS 2155-304 with H.E.S.S. and Fermi-LAT”. *A&A* 598, A39 (Jan. 2017), A39. arXiv: [1610.03311 \[astro-ph.HE\]](#).
- [2] H. Abdalla et al. (H.E.S.S. Collaboration). “First limits on the very-high energy gamma-ray afterglow emission of a fast radio burst. H.E.S.S. observations of FRB 150418”. *A&A* 597, A115 (Jan. 2017), A115. arXiv: [1611.09209 \[astro-ph.HE\]](#).
- [3] H. Abdalla et al. (H.E.S.S. Collaboration). “Gamma-ray blazar spectra with H.E.S.S. II mono analysis: The case of PKS 2155-304 and PG 1553+113”. *A&A* 600, A89 (Apr. 2017), A89. arXiv: [1612.01843 \[astro-ph.HE\]](#).
- [4] H. Abdalla et al. (H.E.S.S. Collaboration). “The population of TeV pulsar wind nebulae in the H.E.S.S. Galactic Plane Survey”. *ArXiv e-prints* (Feb. 2017). arXiv: [1702.08280 \[astro-ph.HE\]](#).
- [5] G. Cologna et al. “The exceptional flare of Mrk 501 in 2014 combined observations with H.E.S.S. and FACT”. *6th International Symposium on High Energy Gamma-Ray Astronomy*. Vol. 1792. American Institute of Physics Conference Series. Jan. 2017, p. 050019. arXiv: [1611.03983 \[astro-ph.HE\]](#).
- [6] H. Abdalla et al. (H.E.S.S. Collaboration). “A search for very high-energy flares from the microquasars GRS 1915+105, Circinus X-1, and V4641 Sgr using contemporaneous H.E.S.S. and RXTE observations”. *ArXiv e-prints* (July 2016). arXiv: [1607.04613 \[astro-ph.HE\]](#).
- [7] H. Abdalla et al. (H.E.S.S. Collaboration). “Deeper H.E.S.S. Observations of Vela Junior (RX J0852.0-4622): Morphology Studies and Resolved Spectroscopy”. *ArXiv e-prints* (Nov. 2016). arXiv: [1611.01863 \[astro-ph.HE\]](#).
- [8] H. Abdalla et al. (H.E.S.S. Collaboration). “H.E.S.S. Limits on Linelike Dark Matter Signatures in the 100 GeV to 2 TeV Energy Range Close to the Galactic Center”. *Physical Review Letters* 117.15, 151302 (Oct. 2016), p. 151302. arXiv: [1609.08091 \[astro-ph.HE\]](#).
- [9] H. Abdalla et al. (H.E.S.S. Collaboration). “H.E.S.S. observations of RX J1713.7-3946 with improved angular and spectral resolution; evidence for gamma-ray emission extending beyond the X-ray emitting shell”. *ArXiv e-prints* (Sept. 2016). arXiv: [1609.08671 \[astro-ph.HE\]](#).
- [10] H. Abdalla et al. (H.E.S.S. Collaboration). “The supernova remnant W49B as seen with H.E.S.S. and Fermi-LAT”. *ArXiv e-prints* (Sept. 2016). arXiv: [1609.00600 \[astro-ph.HE\]](#).
- [11] H. Abdallah et al. (H.E.S.S. Collaboration). “Search for Dark Matter Annihilations towards the Inner Galactic Halo from 10 Years of Observations with H.E.S.S.” *Physical Review Letters* 117.11, 111301 (Sept. 2016), p. 111301. arXiv: [1607.08142 \[astro-ph.HE\]](#).
- [12] A. Abramowski et al. (H.E.S.S. Collaboration). “Acceleration of petaelectronvolt protons in the Galactic Centre”. *Nature* 531 (Mar. 2016), pp. 476–479. arXiv: [1603.07730 \[astro-ph.HE\]](#).
- [13] A. Abramowski et al. (H.E.S.S. Collaboration). “Detailed spectral and morphological analysis of the shell type SNR RCW 86”. *ArXiv e-prints* (Jan. 2016). arXiv: [1601.04461 \[astro-ph.HE\]](#).
- [14] M. Cerruti et al. “Hadronic modeling of TeV AGN: gammas and neutrinos”. *ArXiv e-prints* (Oct. 2016). arXiv: [1610.00255 \[astro-ph.HE\]](#).
- [15] M. Cerruti et al. (for the H.E.S.S. Collaboration). “Target of Opportunity observations of blazars with H.E.S.S. ”. *ArXiv e-prints* (Oct. 2016). arXiv: [1610.05523 \[astro-ph.HE\]](#).
- [16] A. Abramowski et al. (H.E.S.S. Collaboration). “Discovery of variable VHE  $\gamma$ -ray emission from the binary system 1FGL J1018.6-5856”. *A&A* 577, A131 (May 2015), A131. arXiv: [1503.02711 \[astro-ph.HE\]](#).
- [17] A. Abramowski et al. (H.E.S.S. Collaboration). “The exceptionally powerful TeV  $\gamma$ -ray emitters in the Large Magellanic Cloud”. *Science* 347 (Jan. 2015), pp. 406–412. arXiv: [1501.06578 \[astro-ph.HE\]](#).
- [18] N. Chakraborty et al. “Rapid variability at very high energies in Mrk 501”. *ArXiv e-prints* (Sept. 2015). arXiv: [1509.04893 \[astro-ph.HE\]](#).

- [19] M. Chrétien, J. Bolmont, and A. Jacholkowski. “Constraining photon dispersion relation from observations of the Vela pulsar with H.E.S.S”. *34th International Cosmic Ray Conference (ICRC2015)*. Vol. 34. International Cosmic Ray Conference. July 2015, p. 764. arXiv: [1509.03545 \[astro-ph.HE\]](#).
- [20] G. Cologna et al. “Spectral characteristics of Mrk 501 during the 2012 and 2014 flaring states”. *34th International Cosmic Ray Conference (ICRC2015)*. Vol. 34. International Cosmic Ray Conference. July 2015, p. 761. arXiv: [1509.04458 \[astro-ph.HE\]](#).
- [21] M. Kieffer et al. “Search for gamma-ray line signatures with H.E.S.S.” *34th International Cosmic Ray Conference (ICRC2015)*. Vol. 34. International Cosmic Ray Conference. July 2015, p. 1229. arXiv: [1509.03514 \[astro-ph.HE\]](#).
- [22] D. A. Sanchez et al. (for NuSTAR, Fermi and H.E.S.S. Collaborations). “Multiwavelength campaign on the HBL PKS 2155-304 : A new insight on its spectral energy distribution”. *ArXiv e-prints* (Feb. 2015). arXiv: [1502.02915 \[astro-ph.HE\]](#).
- [23] D. A. Sanchez et al. (for Fermi and H.E.S.S. Collaborations). “Probe of Lorentz Invariance Violation effects and determination of the distance of PG 1553+113”. *ArXiv e-prints* (Feb. 2015). arXiv: [1502.02920 \[astro-ph.HE\]](#).