

DR. MANUEL MEYER | PUBLICATION LIST

29 publications in peer-reviewed journals with major contribution (14 as corresponding author). Co-author of more than 50 publications of the H.E.S.S. collaboration, 11 publications of the *Fermi*-LAT collaboration, 23 conference proceedings, and 4 white papers. According to [NASA ADS](#), the publications have in total more than 5800 citations with an h index of 35. A publication list including all collaboration papers can be found on [ORCID](#). Please note that, according to the policies of the scientific Collaborations of which I am a member, author lists of collaboration papers are in alphabetical order. Corresponding author publications are marked with an arrow (➤).

➤➤➤ Peer Reviewed Publications

- [29] ➤M. **Meyer**, M. Petropoulou, and I. Christie, *The observability of plasmoid-powered γ -ray flares with the Fermi Large Area Telescope*, *Accepted in ApJ* 2021, arXiv: [2012.09944 \[astro-ph.HE\]](#).
- [28] ➤H. Abdalla et al. (CTA Consortium including M. **Meyer**), *Sensitivity of the Cherenkov Telescope Array for probing cosmology and fundamental physics with gamma-ray propagation*, *JCAP*, Vol. 2021, No. 2, 048, p. 048, 2021, arXiv: [2010.01349 \[astro-ph.HE\]](#).
- [27] J. Davies, M. **Meyer**, and G. Cotter, *Relevance of jet magnetic field structure for blazar axionlike particle searches*, *Phys. Rev. D*, Vol. 103, No. 2, 023008, p. 023008, 2021, arXiv: [2011.08123 \[astro-ph.HE\]](#).
- [26] H. Abdalla et al. (H.E.S.S. & MAGIC Collaborations including M. **Meyer**), *Observation of a sudden cessation of a very-high-energy γ -ray flare in PKS 1510–089 with H.E.S.S. and MAGIC in May 2016*, *Accepted by A&A* 2020, arXiv: [2012.10254 \[astro-ph.HE\]](#).
- [25] R. Buehler, G. Gallardo, G. Maier, A. Dominguez, M. López, and M. **Meyer**, *Search for the imprint of axion-like particles in the highest-energy photons of hard γ -ray blazars*, *JCAP*, Vol. 2020, No. 9, 027, p. 027, 2020, arXiv: [2004.09396 \[astro-ph.HE\]](#)
- [24] ➤M. **Meyer** and T. Petrushevska, *Search for Axionlike-Particle-Induced Prompt γ -Ray Emission from Extragalactic Core-Collapse Supernovae with the Fermi Large Area Telescope*, *Phys. Rev. Lett.*, Vol. 124, No. 23, 231101, p. 231101, 2020, arXiv: [2006.06722 \[astro-ph.HE\]](#)
- [23] H. Chiaro et al. (including M. **Meyer**), *Identifying TeV Source Candidates among Fermi-LAT Unclassified Blazars*, *ApJ*, Vol. 887, No. 1, 104, p. 104, 2019, arXiv: [1909.10834 \[astro-ph.HE\]](#)
- [22] H. Abdalla et al. (H.E.S.S. Collaboration including M. **Meyer**), *Constraints on the emission region of 3C 279 during strong flares in 2014 and 2015 through VHE γ -ray observations with H.E.S.S.*, *A&A*, Vol. 627, A159, A159, 2019, arXiv: [1906.04996 \[astro-ph.HE\]](#)
- [21] ➤M. **Meyer**, J. D. Scargle, and R. D. Blandford, *Characterizing the gamma-ray variability of the brightest flat spectrum radio quasars observed with the Fermi LAT*, *ApJ*, Vol. 877, No. 1, 39, p. 39, 2019, arXiv: [1902.02291 \[astro-ph.HE\]](#)
- [20] ➤M. Ackermann et al. (Fermi-LAT Collaboration, including M. **Meyer**), *The Search for Spatial Extension in High-latitude Sources Detected by the Fermi Large Area Telescope*, *ApJS*, Vol. 237, 32, p. 32, 2018, arXiv: [1804.08035 \[astro-ph.HE\]](#)
- [19] M. Ackermann et al. (Fermi-LAT Collaboration, including M. **Meyer**), *Search for Gamma-Ray Emission from Local Primordial Black Holes with the Fermi Large Area Telescope*, *ApJ*, Vol. 857, 49, p. 49, 2018
- [18] A. Desai et al. (including M. **Meyer**), *Probing the EBL evolution at high redshift using GRBs detected with the Fermi-LAT*, *ApJ*, Vol. 850, No. 1, p. 73, 2017, arXiv: [1710.02535 \[astro-ph.HE\]](#)
- [17] H. Abdalla et al. (H.E.S.S. Collaboration, including M. **Meyer**), *Measurement of the EBL spectral energy distribution using the VHE gamma-ray spectra of H.E.S.S. blazars*, *A&A*, Vol. 606, A59, 2017, arXiv: [1707.06090 \[astro-ph.HE\]](#)

- [16] ▶C. Balázs, J. Conrad, B. Farmer, T. Jacques, T. Li, M. **Meyer**, F. S. Queiroz, and M. A. Sánchez-Conde, *Sensitivity of the Cherenkov Telescope Array to the detection of a dark matter signal in comparison to direct detection and collider experiments*, *Phys. Rev. D*, Vol. 96, p. 083002, 2017, arXiv: 1706.01505 [[astro-ph.HE](#)].
- [15] ▶M. **Meyer**, M. Giannotti, A. Mirizzi, M. Sánchez-Conde, and J. Conrad, *The Fermi Large Area Telescope as a Galactic Supernovae Axionscope*, *Phys. Rev. Lett.*, Vol. 118, No. 1, p. 011103, 2017, arXiv: 1609.02350 [[astro-ph.HE](#)].
- [14] A. Albert et al. (Fermi-LAT and DES Collaborations, including M. **Meyer**), *Searching for Dark Matter Annihilation in Recently Discovered Milky Way Satellites with Fermi-LAT*, *ApJ*, Vol. 834, No. 2, p. 110, 2017, arXiv: 1611.03184 [[astro-ph.HE](#)].
- [13] ▶M. **Meyer**, J. Conrad, and H. Dickinson, *Sensitivity of the Cherenkov Telescope Array to the Detection of Intergalactic Magnetic Fields*, *ApJ*, Vol. 827, No. 2, p. 147, 2016, arXiv: 1603.03431 [[astro-ph.HE](#)].
- [12] E. Charles et al. (including M. **Meyer**), *Sensitivity projections for dark matter searches with the Fermi large area telescope*, *Phys. Rep.*, Vol. 636, pp. 1–46, 2016, arXiv: 1605.02016 [[astro-ph.HE](#)].
- [11] ▶M. Ajello et al. (Fermi-LAT Collaboration, including M. **Meyer**), *Search for Spectral Irregularities due to Photon-Axionlike-Particle Oscillations with the Fermi Large Area Telescope*, *Phys. Rev. Lett. (Editor's suggestion)*, Vol. 116, No. 16, 161101 2016, arXiv: 1603.06978 [[astro-ph.HE](#)].
- [10] B. Berenji, J. Gaskins, and M. **Meyer**, *Constraints on axions and axionlike particles from Fermi Large Area Telescope observations of neutron stars*, *Phys. Rev. D*, Vol. 93, No. 4, 045019 2016, arXiv: 1602.00091 [[astro-ph.HE](#)].
- [9] Aleksić et al. (MAGIC Collaboration, with M. **Meyer**), *Measurement of the Crab Nebula spectrum over three decades in energy with the MAGIC telescopes*, *Journal of High Energy Astrophysics*, Vol. 5, pp. 30–38, 2015, arXiv: 1406.6892 [[astro-ph.HE](#)].
- [8] ▶M. **Meyer** and J. Conrad, *Sensitivity of the Cherenkov Telescope Array to the detection of axion-like particles at high gamma-ray opacities*, *JCAP*, Vol. 12, 016, p. 016, 2014, arXiv: 1410.1556 [[astro-ph.HE](#)].
- [7] ▶M. **Meyer**, D. Montanino, and J. Conrad, *On detecting oscillations of gamma rays into axion-like particles in turbulent and coherent magnetic fields*, *JCAP*, Vol. 9, 003, p. 003, 2014, arXiv: 1406.5972 [[astro-ph.HE](#)].
- [6] ▶M. **Meyer**, D. Horns, and M. Raue, *First lower limits on the photon-axion-like particle coupling from very high energy gamma-ray observations*, *Phys. Rev. D*, Vol. 87, No. 3, 035027 2013, arXiv: 1302.1208 [[astro-ph.HE](#)].
- [5] D. Horns et al. (including M. **Meyer**), *Hardening of TeV gamma spectrum of active galactic nuclei in galaxy clusters by conversions of photons into axionlike particles*, *Phys. Rev. D*, Vol. 86, No. 7, 075024 2012, arXiv: 1207.0776 [[astro-ph.HE](#)].
- [4] M. Raue and M. **Meyer**, *Probing the peak of the star formation rate density with the extragalactic background light*, *MNRAS*, Vol. 426, pp. 1097–1106, 2012, arXiv: 1203.0310 [[astro-ph.CO](#)].
- [3] ▶M. **Meyer**, M. Raue, D. Mazin, and D. Horns, *Limits on the extragalactic background light in the Fermi era*, *A&A*, Vol. 542, A59 2012, arXiv: 1202.2867 [[astro-ph.CO](#)].
- [2] D. Horns and M. **Meyer**, *Indications for a pair-production anomaly from the propagation of VHE gamma-rays*, *JCAP*, Vol. 2, 033, p. 033, 2012, arXiv: 1201.4711 [[astro-ph.CO](#)].
- [1] ▶M. **Meyer**, D. Horns, and H.-S. Zechlin, *The Crab Nebula as a standard candle in very high-energy astrophysics*, *A&A*, Vol. 523, A2 2010, arXiv: 1008.4524 [[astro-ph.HE](#)].

- [4] E. Armengaud et al. (including M. **Meyer**), *Physics potential of the International Axion Observatory (IAXO)*, *JCAP*, Vol. 2019, No. 6, 047, p. 047, 2019, arXiv: [1904.09155](#) [[hep-ph](#)]
- [3] P. S. Ray et al. (including M. **Meyer**), *STROBE-X: X-ray Timing and Spectroscopy on Dynamical Timescales from Microseconds to Years*, *ArXiv e-prints* Mar. 2019, arXiv: [1903.03035](#) [[astro-ph.IM](#)]
- [2] A. Drlica-Wagner et al. (including M. **Meyer**), *Probing the Fundamental Nature of Dark Matter with the Large Synoptic Survey Telescope*, *ArXiv e-prints* 2019, arXiv: [1902.01055](#) [[astro-ph.CO](#)]
- [1] The CTA Consortium, (including M. **Meyer**), *Science with the Cherenkov Telescope Array*, *World Scientific* 2018, arXiv: [1709.07997](#) [[astro-ph.HE](#)]

»»» Conference Proceedings

- [23] H. Vogel, R. Laha, and M. **Meyer**, *Diffuse axion-like particle searches*, *PoS*, Vol. NOW2018, p. 091, 2019, arXiv: [1712.01839](#) [[hep-ph](#)]
- [22] M. Zacharias et al. (including M. **Meyer**), *The VHE Gamma-Ray View of the FSRQ PKS 1510-089*, *ArXiv e-prints* 2019, arXiv: [1903.08535](#) [[astro-ph.HE](#)].
- [21] ▶F. Gaté et al. (CTA Consortium, including M. **Meyer**), *Studying cosmological γ -ray propagation with the Cherenkov Telescope Array*, *PoS*, Vol. ICRC2017 2017, arXiv: [1709.04185](#) [[astro-ph.HE](#)].
- [20] M. Wood, J. Biteau, R. Caputo, M. Di Mauro, and M. **Meyer** (Fermi-LAT Collaboration), *Preliminary Results of the Fermi High-Latitude Extended Source Catalog*, *PoS* 2017, arXiv: [1709.06213](#) [[astro-ph.HE](#)].
- [19] ▶R. Caputo, M. **Meyer**, and M. Sánchez-Conde (AMEGO Team), *AMEGO: Dark Matter Prospects*, *PoS*, Vol. ICRC2017, p. 910, 2017.
- [18] C. Romoli et al. (HESS Collaboration, including M. **Meyer**), *Observation of the extremely bright flare of the FSRQ 3C279 with H.E.S.S. II*, *PoS*, Vol. ICRC2017 2017, arXiv: [1708.00882](#) [[astro-ph.HE](#)].
- [17] ▶M. **Meyer** for the Fermi-LAT Collaboration, *Searches for Axionlike Particles Using Gamma-Ray Observations*, *Proceedings of 12th Patras Workshop on Axions, WIMPs, and WISPs* 2016, arXiv: [1611.07784](#) [[astro-ph.HE](#)].
- [16] J. Conrad, M. **Meyer**, and D. Montanino, *Axion-Like particles from extragalactic High Energy sources*, *Journal of Physics Conference Series*, Vol. 718, No. 5, 052026, p. 052026, 2016.
- [15] A. Abchiche et al. (CTA Consortium, including M. **Meyer**), *CTA Contributions to the 34th International Cosmic Ray Conference (ICRC2015)*, *ArXiv e-prints* 2015, arXiv: [1508.05894](#) [[astro-ph.HE](#)].
- [14] ▶M. **Meyer**, *Modelling gamma-ray-axion-like particle oscillations in turbulent magnetic fields: relevance for observations with Cherenkov telescopes*, *Proceedings of 10th Patras Workshop on Axions, WIMPs, and WISPs* 2014, arXiv: [1412.2492](#) [[astro-ph.HE](#)].
- [13] ▶M. **Meyer** and D. Horns, *Impact of oscillations of photons into axion-like particles on the very-high energy gamma-ray spectrum of the blazar PKS1424+240*, *Proceeding for the European Physical Society Conference on High Energy Physics* 2013, arXiv: [1310.2058](#) [[astro-ph.HE](#)].
- [12] D. Horns and M. **Meyer**, *Pair-production opacity at high and very-high gamma-ray energies*, *Proceedings of the 9th Patras Workshop* Sept. 2013, arXiv: [1309.3846](#) [[astro-ph.HE](#)].
- [11] O. Abril et al. (CTA Consortium, including M. **Meyer**), *CTA contributions to the 33rd International Cosmic Ray Conference (ICRC2013)*, *ArXiv e-prints* July 2013, arXiv: [1307.2232](#) [[astro-ph.HE](#)].

- [10] M. Raue and M. **Meyer**, *How recent limits on the extragalactic background light constrain the star formation history*, *American Institute of Physics Conference Series*, Vol. 1505, ed. by F. A. Aharonian, W. Hofmann, and F. M. Rieger, pp. 610–613, Dec. 2012.
- [9] ▶M. **Meyer**, M. Raue, D. Mazin, and D. Horns, *Limits on the extragalactic background light in the Fermi era*, *American Institute of Physics Conference Series*, Vol. 1505, ed. by F. A. Aharonian, W. Hofmann, and F. M. Rieger, pp. 602–605, Dec. 2012.
- [8] ▶M. **Meyer**, D. Horns, and M. Raue, *Indications for a low opacity universe from Fermi-LAT data*, *American Institute of Physics Conference Series*, Vol. 1505, ed. by F. A. Aharonian, W. Hofmann, and F. M. Rieger, pp. 598–601, Dec. 2012.
- [7] G. Giavitto et al. (including M. **Meyer**), *VHE gamma-ray measurements of the Crab nebula and pulsar by MAGIC*, *American Institute of Physics Conference Series*, Vol. 1505, ed. by F. A. Aharonian, W. Hofmann, and F. M. Rieger, pp. 301–304, Dec. 2012.
- [6] ▶M. **Meyer**, D. Horns, L. Maccione, A. Mirizzi, D. Montanino, and M. Roncadelli, *The effect of photon-axion-like particle conversions in galaxy clusters on very high energy γ -ray spectra*, *Proceedings of the 8th Patras Workshop on Axions, WIMPs and WISPs 2012*, arXiv: [1211.6408](https://arxiv.org/abs/1211.6408) [[astro-ph.HE](#)].
- [5] ▶M. **Meyer**, D. Horns, and M. Raue, *Revisiting the Indication for a low opacity Universe for very high energy gamma-rays*, *Proceedings of the 8th Patras Workshop on Axions, WIMPs and WISPs* Nov. 2012, arXiv: [1211.6405](https://arxiv.org/abs/1211.6405) [[astro-ph.HE](#)].
- [4] ▶M. **Meyer**, D. Horns, and L. Maccione, *Signatures of axion-like particles from the conversions of gamma-rays in intra-cluster magnetic fields*, 6, ed. by K. Zioutas and M. Schumann, p. 6, July 2012.
- [3] ▶M. **Meyer**, D. Horns, and M. Raue, *Indications for a low opacity Universe at high and very high energies*, 5, ed. by K. Zioutas and M. Schumann, p. 5, July 2012.
- [2] ▶M. **Meyer** and D. Horns, *On the transparency of the universe*, ed. by M. Raue, T. Kneiske, D. Horns, D. Elsaesser, and P. Hauschildt, p. 11, 2010.
- [1] ▶M. **Meyer**, D. Horns, and H. S. Zechlin, *Cross Calibration of Imaging Air Cherenkov Telescopes with Fermi, The 2009 Fermi Symposium, eConf Proceedings C091122* Dec. 2009, arXiv: [0912.3754](https://arxiv.org/abs/0912.3754) [[astro-ph.IM](#)].