# Publication List

26 publications in peer-reviewed journals with major contribution and 3 manuscripts submitted for publication (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 5300 citations with an h index of 33. 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 always in alphabetical order. Corresponding author publications are marked with an asterisk (∗).

## Peer Reviewed Publications

**29**: 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].

**28**: 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]

**27**: ∗**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]

**26**: G. Chiaro et al. (including **M. Meyer**),
*Identifying TeV Source Candidates among Fermi-LAT Unclassified Blazars*,
*Astrophys. J.*, Vol. 887, No. 1, 104, p. 104, 2019, arXiv: 1909.10834 [astro-ph.HE]

**25**: 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]

**24**: ∗**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*,
*Astrophys. J.*, Vol. 877, No. 1, 39, p. 39, 2019, arXiv: 1902.02291 [astro-ph.HE]

**23**: ∗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*,
*Astrophys. J. Suppl.* Vol. 237, 32, p. 32, 2018, arXiv: 1804.08035 [astro-ph.HE]

**22**: 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*,
*Astrophys. J.*, Vol. 857, 49, p. 49, 2018

**21**: A. Desai et al. (including **M. Meyer**),
*Probing the EBL evolution at high redshift using GRBs detected with the Fermi-LAT*,
*Astrophys. J.*, Vol. 850, No. 1, p. 73, 2017, arXiv: 1710.02535 [astro-ph.HE]

**20**: 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]

**19**: ∗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].

**18**: ∗**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].

**17**: 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*,
*Astrophys. J.*, Vol. 834, No. 2, p. 110, 2017, arXiv: 1611.03184 [astro-ph.HE].

**16**: ∗**M. Meyer**, J. Conrad, and H. Dickinson,
*Sensitivity of the Cherenkov Telescope Array to the Detection of Intergalactic Magnetic Fields*,
*Astrophys. J.*, Vol. 827, No. 2, p. 147, 2016, arXiv: 1603.03431 [astro-ph.HE].

**15**: 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].

**14**: ∗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].

**13**: 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].

**12**: 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].

**11**: ∗**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].

**10**: ∗**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].

**9**: ∗**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].

**8**: 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].

**7**: 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].

**6**: ∗**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].

**5**: 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].

**4**: ∗**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].

## Submitted

**3**: ∗**M. Meyer**, M. Petropoulou, and I. Christie,
*The observability of plasmoid-powered $\gamma$-ray flares with the Fermi Large Area Telescope*,
*Submitted to Astrophys. J.* 2020, arXiv: 2012.09944 [astro-ph.HE].

**2**: J. Davies, **M. Meyer**, and G. Cotter,
*Relevance of Jet Magnetic Field Structure for Blazar ALP Searches*,
*Submitted to PRD* 2020, arXiv: 2011.08123 [astro-ph.HE].

**1**: ∗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*,
*Submitted to JCAP* 2020, arXiv: 2010.01349 [astro-ph.HE].

## White Papers

**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 at. (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 $\gamma$-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 $\gamma$-ray spectra*,
*Proceedings of the 8th Patras Workshop on Axions, WIMPs and WISPs* 2012, arXiv: 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 [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 [astro-ph.IM].