DANIEL MAZIN

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PUBLICATION LIST

I have published more than 80 publications in high-energy astroparticle physics under peer review process; 30+ in small collaborations (typically 2-5 persons), 15 as first or only author. According to INSPIRES-HEP database my works are cited more than 4000 times with an h-index of 38.

TOP 10 SELECTED PUBLICATIONS WHERE I AM THE CORRESPONDING AUTHOR:

[1] Mazin, D., Raue, M., Behera, B. et al., Potential of EBL and cosmology studies with the Cherenkov Telescope Array, APh 43 (2013) 241, doi: 10.1016/j.astropartphys.2012.09.002
[2] Aleksic et al (The MAGIC Collaboration), MAGIC Discovery of Very High Energy Emission from the FSRQ PKS 1222+21, ApJ 730 (2011) L8
[3] Raue, M. and Mazin D., Potential of the next generation VHE instruments to probe the EBL (I): The low- and mid-VHE, Astroparticle Physics 34 (2010) 245
[4] Acciari, et al. (The MAGIC, H.E.S.S and VERITAS Collaborations and VLBA 43 GHz M87 Monitoring Team), Radio Imaging of the Very-High-Energy Gamma-Ray Emission Region in the Central Engine of a Radio Galaxy , Science Express, 2nd July 2009
[5] Tavecchio, F. & Mazin, D. Intrinsic absorption in 3C 279 at GeV-TeV energies and consequences for estimates of the EBL, MNRAS Astronomy 392 (2009) L40-L44
[6] Raue, M., Kneiske T.M., & Mazin, D. First stars and the extragalactic background light: How recent gamma-ray observations constrain the early universe, Astronomy & Astrophysics, 498 (2009) 25-35
[7] Albert, J. et al. (The MAGIC Collaboration), Very high energy gamma rays from a distant Quasar: How transparent is the Universe? Science 320 (2008) 1752
[8] Mazin, D. and Raue, M., New limits on the density of the extragalactic background light in the optical to the far infrared from the spectra of all known TeV blazars, Astronomy and Astrophysics 471 (2007) 439-452
[9] Mazin, D. and Goebel, F., Break in the Very High Energy Spectrum of PG 1553+113: New Upper Limit on Its Redshift, ApJ 655 (2007) L13-L16
[10] Albert, J. et al. (The MAGIC Collaboration), Discovery of very high energy gamma-rays from 1ES1011+496 at z=0.212, ApJ 667 (2007) L21-L24

SELECTED INTERNATIONAL CONFERENCES IN WHICH I DELIVERED INVITED TALKS:

- "MAGIC Highlights": at the Heidelberg International Symposium on High Energy Gamma-Ray Astronomy (Gamma2012), Heidelberg, Germany, July 2012
- "CTA: Cherenkov Telescope Array": at Les Rencontres de Physique de la Vallée d'Aoste, La Tuile, Italy, March 2012
- "Prospects on the Extragalactic Background Light, the Early Universe and Cosmology with CTA" at Meeting for the High Energy Astrophysics Division (HEAD 2011), New Port, USA, Sept 2011
- "MAGIC telescopes: status and scientific highlights" at High Energy Astroparticle Physics meeting, Tsukuba, Japan, Nov 2011
- "EBL and Cosmology Studies in the CTA Era" at AGN physics in the CTA era, Toulouse, France, May 2011
- "Constraints on Extragalactic Background Light using very high energy gamma rays" at Theory and observations of extragalactic magnetic fields, Paris, France, Dec 2010
- "Constraints on Extragalactic Background Light using very high energy gamma rays" at Cosmic Radiation Fields: Sources in the early Universe, Hamburg, Germany, Nov 2010
- "MAGIC observations of AGNs" at Accretion and Ejection: A global view. Como, Italy, June 2009
- "VHE γ-rays and Extragalactic Background Light" at European Week of Astronomy and Space Time (JENAM 2009), University of Hertfordshire, U.K., April 2009
- "Constraints on EBL from Cherenkov Telescopes: status and perspectives" at Science with the New Generation of High Energy Gamma-Ray Experiments (Scineghe08), Padova, Italy, October 2008
- "MAGIC observations of AGNs" at the '5 years of INTEGRAL', Chia Laguna, Italy, October 2007

FULL REFERENCE LIST OF PUBLISHED PAPERS IN PEER REFEREED JOURNALS

1) Introducing the CTA concept
By B.S. Acharya, M. Actis, T. Aghajani, G. Agnetta, J. Aguilar, F. Aharonian, M. Ajello, A. Akhperjanian et al..
10.1016/j.astropartphys.2013.01.007.
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2) Potential of EBL and cosmology studies with the Cherenkov Telescope Array
By Consortium CTA Collaboration (Daniel Mazin et al.).
arXiv:1303.7124 [astro-ph.CO].
10.1016/j.astropartphys.2012.09.002.
Astropart.Phys. 43 (2013) 241-251.

3) Analysis techniques and performance of the Domino Ring Sampler version 4 based readout for the MAGIC telescopes
By J. Sitarek, M. Gaug, D. Mazin, R. Paoletti & D. Tescaro
NIMA 723 (2013) 109-120

4) Monte Carlo design studies for the Cherenkov Telescope Array
By K. Bernlöhr, A. Barnacka, Y. Becherini, O. Blanch Bigas, E. Carmona, P. Colin, G. Decerprit, F. Di Pierro et al.
arXiv:1210.3503 [astro-ph.IM].
10.1016/j.astropartphys.2012.10.002.
Astropart.Phys. 43 (2013) 171-188.

5) Solving inverse problems with the unfolding program TRUEE: Examples in astroparticle physics
By N. Milke, M. Doert, S. Klepser, D. Mazin, V. Blobel, W. Rhode.
arXiv:1209.3218 [astro-ph.IM].
10.1016/j.nima.2012.08.105.
Nucl.Instrum.Meth. A697 (2013) 133-147.

6) Prospects for Observations of Pulsars and Pulsar Wind Nebulae with CTA
By CTA Collaboration (E. de Ona Wilhelmi et al.).
arXiv:1209.0357 [astro-ph.IM].
10.1016/j.astropartphys.2012.08.009.
Astropart.Phys. 43 (2013) 287-300.

7) MAGIC observations of the giant radio galaxy M87 in a low-emission state between 2005 and 2007
By MAGIC Collaboration (J. Aleksic et al.).
arXiv:1207.2147 [astro-ph.HE].
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8) Discovery of VHE gamma-rays from the blazar 1ES 1215+303 with the MAGIC Telescopes and simultaneous multi-wavelength observations
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arXiv:1203.0490 [astro-ph.HE].
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9) Discovery of VHE gamma-ray emission from the BL Lac object B3 2247+381 with the MAGIC telescopes
By MAGIC Collaboration (J. Aleksic et al.).
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10) Detection of the gamma-ray binary LS I +61 303 in a low flux state at Very High Energy gamma-rays with the MAGIC Telescopes in 2009
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arXiv:1111.6572 [astro-ph.HE].
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11) The 2010 very high energy gamma-ray flare & 10 years of multi-wavelength observations of M 87
By H.E.S.S. and VERITAS and MAGIC Collaborations (A. Abramowski et al.).
arXiv:1111.5341 [astro-ph.CO].
10.1088/0004-637X/746/2/151.
Astrophys.J. 746 (2012) 151.

12) An Experiment to Locate the Site of TeV Flaring in M87
By D.E. Harris, F. Massaro, C.C. Cheung, D. Horns, M. Raue, L. Stawarz, S. Wagner, P. Colin et al..
arXiv:1111.5343 [astro-ph.HE].
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13) Constraining Cosmic Rays and Magnetic Fields in the Perseus Galaxy Cluster with TeV observations by the MAGIC telescopes
By MAGIC Collaboration (J. Aleksic et al.).
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14) Phase-resolved energy spectra of the Crab Pulsar in the range of 50-400 GeV measured with the MAGIC Telescopes
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16) Performance of the MAGIC stereo system obtained with Crab Nebula data
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17) Fermi large area telescope observations of Markarian 421: The missing piece of its spectral energy distribution
By MAGIC Collaboration (A.A. Abdo et al.).
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18) EBL studies with ground-based VHE gamma-ray detectors: Current status and potential of next-generation instruments
By Martin Raue, Daniel Mazin.

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19) Mrk 421 active state in 2008: the MAGIC view, simultaneous multi-wavelength observations and SSC model constrained
By J. Aleksic, E.A. Alvarez, L.A. Antonelli, P. Antoranz, M. Asensio, M. Backes, J.A. Barrio, D. Bastieri et al..
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23) Insights Into the High-Energy Gamma-ray Emission of Markarian 501 from Extensive Multifrequency Observations in the Fermi Era
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24) Observations of the Blazar 3C 66A with the MAGIC Telescopes in Stereoscopic Mode
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25) Design concepts for the Cherenkov Telescope Array CTA: An advanced facility for ground-based high-energy gamma-ray astronomy
By CTA Consortium Collaboration (M. Actis et al.).
arXiv:1008.3703 [astro-ph.IM].

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27) Potential of the next generation VHE instruments to probe the EBL (I): the low- and mid-VHE
By Martin Raue, Daniel Mazin.
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28) MAGIC constraints on Gamma-ray emission from Cygnus X-3
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29) Gamma-ray excess from a stacked sample of high- and intermediate-frequency peaked blazars observed with the MAGIC telescope
By MAGIC Collaboration (J. Aleksic et al.).
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30) MAGIC TeV Gamma-Ray Observations of Markarian 421 during Multiwavelength Campaigns in 2006
By MAGIC Collaboration (J. Aleksic et al.).
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31) Simultaneous multi-frequency observation of the unknown redshift blazar PG 1553+113 in March-April 2008
By MAGIC Collaboration (J. Aleksic et al.).
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32) Correlated X-ray and Very High Energy emission in the gamma-ray binary LS I +61 303
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33) Simultaneous Multiwavelength observation of Mkn 501 in a low state in 2006
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34) MAGIC Gamma-Ray Telescope Observation of the Perseus Cluster of Galaxies: Implications for Cosmic Rays, Dark Matter and NGC 1275
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35) Radio Imaging of the Very-High-Energy Gamma-Ray Emission Region in the Central Engine of a Radio Galaxy
By VERTIAS and HESS and MAGIC Collaborations (V.A. Acciari et al.).
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36) Search for VHE γ-ray emission from the globular cluster M13 with the MAGIC telescope
By MAGIC Collaboration (Hans Anderhub et al.).
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10.1088/0004-637X/702/1/266.
Astrophys.J. 702 (2009) 266-269.

37) Suzaku Wide Band Analysis of the X-ray Variability of TeV Blazar Mrk 421 in 2006
By Masayoshi Ushio, Takaaki Tanaka, Grzegorz Madejski, Tadayuki Takahashi, Masaaki Hayashida, Jun Kataoka, Daniel Mazin, Stefan Rugamer et al..
arXiv:0905.0698 [astro-ph.HE].
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38) The June 2008 flare of Markarian 421 from optical to TeV energies
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arXiv:0812.1500 [astro-ph].
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39) Discovery of a very high energy gamma-ray signal from the 3C 66A/B region
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40) Improving the performance of the single-dish Cherenkov telescope MAGIC through the use of signal timing
By MAGIC Collaboration (E. Aliu et al.).
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41) Upper limits on the VHE gamma-ray emission from the Willman 1 satellite galaxy with the MAGIC Telescope
By MAGIC Collaboration (E. Aliu et al.).
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42) Observation of pulsed gamma-rays above 25 GeV from the Crab pulsar with MAGIC
By MAGIC Collaboration (E. Aliu et al.).
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43) First bounds on the high-energy emission from isolated Wolf-Rayet binary systems
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Astrophys.J. 685 (2008) L71-L74.

44) Very-High-Energy Gamma Rays from a Distant Quasar: How Transparent Is the Universe?
By MAGIC Collaboration (E. Aliu et al.).
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By MAGIC Collaboration (J. Albert et al.).
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46) MAGIC Observations of a 13-Day Flare Complex in M87 in February 2008
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By M. Raue, D. Mazin.
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49) MAGIC observations of the unidentified TeV gamma-ray source TeV J2032+4130
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51) Implementation of the Random Forest Method for the Imaging Atmospheric Cherenkov Telescope MAGIC
By J. Albert, E. Aliu, H. Anderhub, P. Antoranz, A. Armada, M. Asensio, C. Baixeras, J.A. Barrio et al..
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53) Unfolding of differential energy spectra in the MAGIC experiment
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55) Discovery of Very High Energy gamma-rays from 1ES1011+496 at z=0.212
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57) Very High Energy Gamma-ray Radiation from the Stellar-mass Black Hole Cygnus X-1
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62) Variable VHE gamma-ray emission from Markarian 501
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63) New limits on the density of the extragalactic background light in the optical to the far-infrared from the spectra of all known TeV blazars
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67) Break in the VHE spectrum of PG 1553+113: New upper limit on its redshift?
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70) Discovery of very high energy gamma-rays from Markarian 180 triggered by an optical outburst
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71) Detection of VHE radiation from the BL Lac PG 1553+113 with the MAGIC telescope
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76) Flux upper limit of gamma-ray emission by grb050713a from magic telescope observations

By J. Albert, E. Aliu, H. Anderhub, P. Antoranz, A. Armada, M. Asensio, C. Baixeras, J.A. Barrio et al..
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79) Synchrotron flaring in the jet of 3C 279
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80) Observation of VHE gamma-ray emission from the active galactic nucleus 1ES1959+650 using the Magic Telecope
By MAGIC Collaboration (J. Albert et al.).
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