

LIST OF PUBLICATIONS  
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INFORMATION

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REFEREED  
JOURNALS

- A. Archer *et al.* [VERITAS Collaboration], *VERITAS Discovery of VHE Emission from the Radio Galaxy 3C 264: A Multi-Wavelength Study*, *Astrophys. J.* **896**, 41 (2020)  
doi.org/10.3847/1538-4357/ab910e  
[arXiv:2005.03110 [astro-ph.HE]]
- J. Valverde *et al.* [Fermi-LAT and VERITAS Collaborations], *A decade of multi-wavelength observations of the TeV blazar 1ES 1215+303: Extreme shift of the synchrotron peak frequency and long-term optical-gamma-ray flux increase*, *Astrophys. J.* **891**, 170 (2020)  
doi.org/10.3847/1538-4357/ab765d  
[arXiv:2002.04119 [astro-ph.HE]]
- A. Abeysekara *et al.* [VERITAS and MAGIC Collaborations], *The Great Markarian 421 Flare of February 2010: Multiwavelength variability and correlation studies*, *Astrophys. J.* **890**, 97 (2020)  
doi.org/10.3847/1538-4357/ab6612  
[arXiv:2002.03567 [astro-ph.HE]]
- A. Abeysekara *et al.* [VERITAS Collaboration], *VERITAS Detection of LS 5039 and HESS J1825-137*, *Astropart. Phys.* **117**, 102403 (2020)  
doi.org/10.1016/j.astropartphys.2019.102403  
[arXiv:2001.03522 [astro-ph.HE]]
- A. Abeysekara *et al.* [VERITAS Collaboration], *Probing the Properties of the Pulsar Wind in the Gamma-Ray Binary HESS J0632+057 with NuSTAR and VERITAS Observations*, *Astrophys. J.* **888**, 2 (2019)  
doi.org/10.3847/1538-4357/ab59de  
[arXiv:1911.09434 [astro-ph.HE]]
- J. Coronado-Blazquez, M. A. Sanchez-Conde, A. Dominguez, A. Aguirre-Santaella, M. Di Mauro, N. Mirabal, D. Nieto and E. Charles, *Unidentified Gamma-ray Sources as Targets for Indirect Dark Matter Detection with the Fermi-Large Area Telescope*, *JCAP* **07**, 020 (2019)  
doi.org/10.1088/1475-7516/2019/07/020  
[arXiv:1906.11896 [astro-ph.HE]]
- W. Benbow *et al.* [VERITAS Collaboration] *Direct measurement of stellar angular diameters by the VERITAS Cherenkov Telescopes*, *Nature Astron.* **3**, no.6, 511-516 (2019)  
doi.org/10.1038/s41550-019-0741-z  
[arXiv:1904.06324 [astro-ph.SR]]
- Acharyya, A. *et al.* [CTA Consortium] *Monte Carlo studies for the optimisation of the Cherenkov Telescope Array layout* *Astroparticle Physics*, 111, 35 (2019)  
doi.org/10.1016/j.astropartphys.2019.04.001  
[arXiv:1904.01426 [astro-ph.IM]]
- A. Archer *et al.* [VERITAS Collaboration], *Measurement of the Iron Spectrum in Cosmic Rays by VERITAS*, *Phys. Rev. D* **98**, no. 2, 022009 (2018)  
doi:10.1103/PhysRevD.98.022009  
[arXiv:1807.08010 [astro-ph.HE]]
- A. Archer *et al.* [VERITAS Collaboration], *HESS J1943+213: An Extreme Blazar Shining Through The Galactic Plane*, *Astrophys. J.* **862**, no. 1, 41 (2018)  
doi:10.3847/1538-4357/aacbd0  
[arXiv:1806.04144 [astro-ph.HE]]
- I. Bartos *et al.*, *Strategies for the Follow-up of Gravitational Wave Transients with the Cherenkov Telescope Array*, *Mon. Not. Roy. Astron. Soc.* **477**, no. 1, 639 (2018)  
doi:10.1093/mnras/sty602

- [arXiv:1802.00446 [astro-ph.HE]]
- M. G. Aartsen *et al.* [IceCube and Fermi-LAT and MAGIC and AGILE and ASAS-SN and HAWC and H.E.S.S. and INTEGRAL and Kanata and Kiso and Kapteyn and Liverpool Telescope and Subaru and Swift NuSTAR and VERITAS and VLA/17B-403 Collaborations], *Multimessenger observations of a flaring blazar coincident with high-energy neutrino IceCube-170922A*, *Science* **361**, no. 6398, eaat1378 (2018)  
doi:10.1126/science.aat1378  
[arXiv:1807.08816 [astro-ph.HE]]
  - A. U. Abeysekara *et al.* [VERITAS Collaboration], *Discovery of very-high-energy emission from RGB J2243+203 and derivation of its redshift upper limit*, *Astrophys. J. Suppl.* **233**, no. 1, 7 (2017)  
doi:10.3847/1538-4365/aa8d76  
arXiv:1709.05403 [astro-ph.HE]
  - C. Allen *et al.* [VERITAS Collaboration], *Very-High-Energy  $\gamma$ -Ray Observations of the Blazar 1ES 2344+514 with VERITAS*, *Mon. Not. Roy. Astron. Soc.* **471**, no. 2, 2117 (2017)  
doi:10.1093/mnras/stx1756  
arXiv:1708.02829 [astro-ph.HE]
  - S. Archambault *et al.* [VERITAS Collaboration], *Gamma-ray Observations Under Bright Moonlight with VERITAS*, *Astropart. Phys.* **03** (2017) 001  
doi:10.1016/j.astropartphys.2017.03.001  
arXiv:1703.01307 [astro-ph.IM]
  - F. Acero *et al.* [CTA Consortium], *Prospects for Cherenkov Telescope Array Observations of the Young Supernova Remnant RX J1713.7-3946*, *Astrophys. J.* **840**, no. 2, 74 (2017)  
doi:10.3847/1538-4357/aa6d67  
arXiv:1704.04136 [astro-ph.HE]
  - S. Archambault *et al.* [VERITAS Collaboration], *Dark Matter Constraints from a Joint Analysis of Dwarf Spheroidal Galaxy Observations with VERITAS*, *Phys. Rev. D* **95**, no. 8, 082001 (2017)  
doi:10.1103/PhysRevD.95.082001  
arXiv:1703.04937 [astro-ph.HE]
  - S. Archambault *et al.* [VERITAS Collaboration], *Gamma-Ray Observations of Tycho's Supernova Remnant with VERITAS and Fermi*, *Astrophys. J.* **836**, no. 1, 23 (2017)  
doi:10.3847/1538-4357/836/1/23  
arXiv:1701.06740 [astro-ph.HE]
  - A. U. Abeysekara *et al.* [VERITAS and Fermi-LAT Collaborations], *A luminous and isolated gamma-ray flare from the blazar B2 1215+30*, *Astrophys. J.* **836**, no. 2, 205 (2017)  
doi:10.3847/1538-4357/836/2/205  
arXiv:1701.01067 [astro-ph.HE]
  - S. Archambault *et al.* [VERITAS Collaboration], *Search for Magnetically Broadened Cascade Emission From Blazars with VERITAS*, *Astrophys. J.* **835**, no. 2, 288 (2017)  
doi:10.3847/1538-4357/835/2/288  
arXiv:1701.00372 [astro-ph.HE]
  - M. L. Ahnen *et al.* [MAGIC and VERITAS Collaborations], *Multiband variability studies and novel broadband SED modeling of Mrk 501 in 2009*, *Astron. Astrophys.* **603**, A31 (2017) doi:10.1051/0004-6361/201629540 arXiv:1612.09472 [astro-ph.HE]
  - A. U. Abeysekara *et al.* [VERITAS and MAGIC Collaborations], *A search for spectral hysteresis and energy-dependent time lags from X-ray and TeV gamma-ray observations of Mrk 421*, *Astrophys. J.* **834**, no. 1, 2 (2017)  
doi:10.3847/1538-4357/834/1/2  
arXiv:1611.04626 [astro-ph.HE]
  - M. G. Aartsen *et al.* [IceCube and MAGIC and VERITAS Collaborations], *Very High-Energy Gamma-Ray Follow-Up Program Using Neutrino Triggers from IceCube*, *JINST* **11**, no. 11, P11009 (2016)  
doi:10.1088/1748-0221/11/11/P11009  
arXiv:1610.01814 [hep-ex]
  - E. Aliu *et al.* [VERITAS Collaboration], *A Search for Very High-Energy Gamma Rays from the Missing Link Binary Pulsar J1023+0038 with VERITAS*, *Astrophys. J.* **831**, no. 2, 193 (2016)  
doi:10.3847/0004-637X/831/2/193  
arXiv:1609.01692 [astro-ph.HE]

- A. Archer *et al.* [VERITAS Collaboration], *Very-high-energy observations of the binaries V 404 Cyg and 4U 0115+634 during giant X-ray outbursts*, *Astrophys. J.* **831**, no. 1, 113 (2016)  
doi:10.3847/0004-637X/831/1/113  
arXiv:1608.06464 [astro-ph.HE]
- E. Aliu *et al.* [VERITAS Collaboration], *Very High Energy outburst of Markarian 501 in May 2009*, *Astron. Astrophys.* **594**, A76 (2016)  
doi:10.1051/0004-6361/201628744  
arXiv:1608.01569 [astro-ph.HE]
- A. U. Abeysekara *et al.* [VERITAS Collaboration], *VERITAS and Multiwavelength Observations of the BL Lacertae Object 1ES 1741+196*, *Mon. Not. Roy. Astron. Soc.* **459**, no. 3, 2550 (2016)  
doi:10.1093/mnras/stw664  
arXiv:1603.07286 [astro-ph.HE]
- S. Archambault *et al.* [VERITAS Collaboration], *Upper limits from five years of blazar observations with the VERITAS Cherenkov telescopes*, *Astron. J.* **151**, 142 (2016)  
doi:10.3847/0004-6256/151/6/142  
arXiv:1603.02410 [astro-ph.HE]
- A. Archer *et al.* [VERITAS Collaboration], *TeV Gamma-ray Observations of The Galactic Center Ridge By VERITAS*, *Astrophys. J.* **821**, no. 2, 129 (2016)  
doi:10.3847/0004-637X/821/2/129  
arXiv:1602.08522 [astro-ph.HE]
- A. U. Abeysekara *et al.* [VERITAS Collaboration], *A Search for Brief Optical Flashes Associated with the SETI Target KIC 8462852*, *Astrophys. J.* **818**, no. 2, L33 (2016)  
doi:10.3847/2041-8205/818/2/L33  
arXiv:1602.00987 [astro-ph.IM]
- S. Archambault *et al.* [VERITAS Collaboration], *Exceptionally Bright tev Flares From the Binary LS I +61° 303*, *Astrophys. J.* **817**, no. 1, L7 (2016)  
doi:10.3847/2041-8205/817/1/L7  
arXiv:1601.01812 [astro-ph.HE]
- M. Baloković *et al.* [NuSTAR Team and VERITAS and MAGIC Collaborations], *Multiwavelength Study of Quiescent States of Mrk 421 with Unprecedented Hard X-Ray Coverage Provided by NuSTAR in 2013*, *Astrophys. J.* **819**, 156 (2016)  
doi:10.3847/0004-637X/819/2/156  
arXiv:1512.02235 [astro-ph.HE]
- A. Furniss *et al.* [NuSTAR Team and MAGIC and VERITAS Collaborations], *First NuSTAR Observations of Mrk 501 within a Radio to TeV Multi-Instrument Campaign*, *Astrophys. J.* **812**, no. 1, 65 (2015)  
doi:10.1088/0004-637X/812/1/65  
arXiv:1509.04936 [astro-ph.HE]
- A. U. Abeysekara *et al.* [VERITAS and SPOL and ASAS-SN and OVRO and NuSTAR and CRTS Collaborations], *Gamma-rays From the Quasar Pks 1441+25: Story of an Escape*, *Astrophys. J.* **815**, no. 2, L22 (2015)  
doi:10.1088/2041-8205/815/2/L22  
arXiv:1512.04434 [astro-ph.HE]
- S. Archambault *et al.* [VERITAS Collaboration], *Veritas Detection of  $\gamma$ -ray Flaring Activity From the BL Lac Object 1ES 1727+502 During Bright Moonlight Observations*, *Astrophys. J.* **808**, no. 2, 110 (2015)  
doi:10.1088/0004-637X/808/2/110  
arXiv:1506.06246 [astro-ph.HE]
- E. Aliu, *et al.* [VERITAS Collaboration], *A Search for Pulsations from Geminga Above 100 GeV with VERITAS*, *Astrophys. J.* **800**, no. 1, 61 (2015)  
doi:10.1088/0004-637X/800/1/61  
arXiv:1412.4734 [astro-ph.HE]
- E. Aliu *et al.* [VERITAS Collaboration], *VERITAS Observations of the BL Lac Object PG 1553+113*, *Astrophys. J.* **799**, no. 1, 7 (2015)  
doi:10.1088/0004-637X/799/1/7  
arXiv:1411.1439 [astro-ph.HE]
- J. Aleksic *et al.* [MAGIC and VERITAS and External Collaborators], *Multiwavelength observations of Mrk 501 in 2008*, *Astron. Astrophys.* **573**, A50 (2015)  
doi:10.1051/0004-6361/201322906

- arXiv:1410.6391 [astro-ph.HE]
- F. D'Ammando *et al.* [VERITAS Collaboration], *The most powerful flaring activity from the NLSy1 PMN J0948+0022*, Mon. Not. Roy. Astron. Soc. **446**, 2456 (2015)  
doi:10.1093/mnras/stu2251  
arXiv:1410.7144 [astro-ph.HE]
  - E. Aliu *et al.* [VERITAS and HESS Collaborations], *Long-term TeV and X-ray Observations of the Gamma-ray Binary HESS J0632+057*, Astrophys. J. **780**, no. 2, 168 (2014)  
doi:10.1088/0004-637X/780/2/168  
arXiv:1311.6083 [astro-ph.HE]
  - E. Aliu *et al.*, *A three-year multi-wavelength study of the very-high-energy  $\gamma$ -ray blazar 1ES 0229+200*, Astrophys. J. **782**, no. 1, 13 (2014)  
doi:10.1088/0004-637X/782/1/13  
arXiv:1312.6592 [astro-ph.HE]
  - E. Aliu *et al.* [VERITAS Collaboration], *Observations of the unidentified gamma-ray source TeV J2032+4130 by VERITAS*, Astrophys. J. **783**, 16 (2014)  
doi:10.1088/0004-637X/783/1/16  
arXiv:1401.2828 [astro-ph.HE]
  - S. Archambault *et al.* [VERITAS and Fermi-LAT Collaborations], *Deep Broadband Observations of the Distant Gamma-ray Blazar PKS 1424+240*, Astrophys. J. **785**, L16 (2014)  
doi:10.1088/2041-8205/785/1/L16  
arXiv:1403.4308 [astro-ph.HE]
  - I. Bartos, P. Veres, D. Nieto *et al.*, *Cherenkov Telescope Array is Well Suited to Follow Up Gravitational Wave Transients*, Mon. Not. Roy. Astron. Soc. **443**, no. 1, 738 (2014)  
doi:10.1093/mnras/stu1205  
arXiv:1403.6119 [astro-ph.HE]
  - E. Aliu *et al.* [VERITAS Collaboration], *Spatially Resolving the Very High Energy emission from MGRO J2019+37 with VERITAS*, Astrophys. J. **788**, 78 (2014)  
doi:10.1088/0004-637X/788/1/78  
arXiv:1404.1841 [astro-ph.HE]
  - E. Aliu *et al.* [VERITAS Collaboration], *Investigating the TeV Morphology of MGRO J1908+06 with VERITAS*, Astrophys. J. **787**, 166 (2014)  
doi:10.1088/0004-637X/787/2/166  
arXiv:1404.7185 [astro-ph.HE]
  - S. Archambault *et al.* [VERITAS Collaboration], *Test of models of the cosmic infrared background with multiwavelength observations of the blazar 1ES 1218+30.4 in 2009*, Astrophys. J. **788**, no. 2 (2014)  
doi:10.1088/0004-637X/788/2/158.
  - A. Archer *et al.* [VERITAS Collaboration], *Very-high energy observations of the Galactic center region by VERITAS in 2010-2012*, Astrophys. J. **790**, no. 2, 149 (2014)  
doi:10.1088/0004-637X/790/2/149  
arXiv:1406.6383 [astro-ph.HE]
  - E. Aliu *et al.* [VERITAS Collaboration], *Investigating Broadband Variability of the TeV Blazar 1ES 1959+650*, Astrophys. J. **797**, no. 2, 89 (2014)  
doi:10.1088/0004-637X/797/2/89  
arXiv:1412.1031 [astro-ph.HE]
  - E. Aliu *et al.* [VERITAS Collaboration], *Constraints on Very High Energy Emission from GRB 130427A*, Astrophys. J. **795**, no. 1, L3 (2014)  
doi:10.1088/2041-8205/795/1/L3  
arXiv:1410.5367 [astro-ph.HE]
  - E. Aliu *et al.* [VERITAS and HESS Collaborations], *Long-term TeV and X-ray Observations of the Gamma-ray Binary HESS J0632+057*, Astrophys. J. **780**, no. 2, 168 (2014)  
doi:10.1088/0004-637X/780/2/168  
arXiv:1311.6083 [astro-ph.HE]
  - S. Archambault *et al.* [VERITAS Collaboration], *VERITAS Observations of the Microquasar Cygnus X-3*, Astrophys. J. **779**, 150 (2013)  
doi:10.1088/0004-637X/779/2/150  
arXiv:1311.0919 [astro-ph.HE]
  - E. Aliu *et al.* [VERITAS Collaboration], *Long term observations of B2 1215+30 with VERITAS*,

- Astrophys. J. **779** (2013) 92.  
doi:10.1088/0004-637X/779/2/92  
arXiv:1310.6498[astro-ph.HE]
- J. Aleksic *et al.* [AGILE team and Fermi-LAT Team and F-GAMMA Team and MAGIC Collaborations], *The Simultaneous Low State Spectral Energy Distribution of 1ES 2344+514 from Radio to Very High Energies*, Astron. Astrophys. **556** (2013) A67.  
doi:10.1051/0004-6361/201220714  
arXiv:1211.2608[astro-ph.HE]
  - J. Aleksic *et al.* [MAGIC Collaboration], *Observations of the magnetars 4U 0142+61 and 1E 2259+586 with the MAGIC telescopes*, Astron. Astrophys. **549** (2013) A23.  
doi:10.1051/0004-6361/201220275  
arXiv:1211.1173[astro-ph.HE]
  - M. Doro *et al.* [CTA Consortium], *Dark Matter and Fundamental Physics with the Cherenkov Telescope Array*, Astropart. Phys. **43** (2013) 189.  
doi:j.astropartphys.2012.08.002  
arXiv:1208.5356[astro-ph.IM]
  - Acharya:2013sxa B. S. Acharya *et al.* [CTA Consortium], *Introducing the CTA concept*, Astropart. Phys. **43**, 3 (2013).  
doi:10.1016/j.astropartphys.2013.01.007
  - J. Aleksic *et al.* [MAGIC Collaboration], *MAGIC observations of the giant radio galaxy M87 in a low-emission state between 2005 and 2007*, Astron. Astrophys. **544** (2012) A96.  
doi:10.1051/0004-6361/201117827  
arXiv:1207.2147[astro-ph.HE]
  - J. Aleksic *et al.* [MAGIC Collaboration], *High zenith angle observations of PKS 2155-304 with the MAGIC-I telescope*, Astron. Astrophys. **544** (2012) A75.  
doi:10.1051/0004-6361/201218796  
arXiv:1207.1634[astro-ph.HE]
  - J. Aleksic *et al.* [MAGIC Collaboration], *Detection of VHE  $\gamma$ -rays from HESS J0632+057 during the 2011 February X-ray outburst with the MAGIC Telescopes*, Astrophys. J. Lett. **754** (2012) L10  
doi:10.1088/2041-8205/754/1/L10  
arXiv:1203.2867[astro-ph.HE]
  - J. Aleksic *et al.* [MAGIC Collaboration], *Discovery of VHE gamma-rays from the blazar 1ES 1215+303 with the MAGIC Telescopes and simultaneous multi-wavelength observations*, Astron. Astrophys. **544** (2012) A142.  
doi:10.1051/0004-6361/201219133  
arXiv:1203.0490[astro-ph.HE]
  - J. Aleksic *et al.* [MAGIC Collaboration], *Morphological and spectral properties of the W51 region measured with the MAGIC telescopes*, Astron. Astrophys. **541** (2012) A13.  
doi:10.1051/0004-6361/201218846  
arXiv:1201.4074[astro-ph.HE]
  - J. Aleksic *et al.* [MAGIC Collaboration], *Discovery of VHE gamma-ray emission from the BL Lac object B3 2247+381 with the MAGIC telescopes*, Astron. Astrophys. **539** (2012) A118.  
doi:10.1051/0004-6361/201117967  
arXiv:1201.2634[astro-ph.HE]
  - J. Aleksic *et al.* [MAGIC Collaboration], *Detection of very high energy gamma-ray emission from NGC 1275 by the MAGIC telescopes*, Astron. Astrophys. **539** (2012) L2.  
http://dx.doi.org/10.1051/0004-6361/201118668  
arXiv:1112.3917[astro-ph.HE]
  - Abramowski:2011ze A. Abramowski *et al.* [HESS, VERITAS, and MAGIC Collaborations], *The 2010 very high energy gamma-ray flare & 10 years of multi-wavelength observations of M 87*, Astrophys. J. **746**, 151 (2012)  
http://dx.doi.org/10.1088/0004-637X/746/2/151  
arXiv:1111.5341 [astro-ph.CO]
  - J. Aleksic *et al.* [MAGIC Collaboration], *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*, Astrophys. J. **746** (2012) 80.  
http://dx.doi.org/10.1088/0004-637X/746/1/80  
arXiv:1111.6572[astro-ph.HE]

- J. Aleksic *et al.* [MAGIC Collaboration], *Constraining Cosmic Rays and Magnetic Fields in the Perseus Galaxy Cluster with TeV observations by the MAGIC telescopes*, *Astron. Astrophys.* **541** (2012) A99.  
<http://dx.doi.org/10.1051/0004-6361/201118502>  
arXiv:1111.5544[astro-ph.HE]
- J. Aleksic *et al.* [MAGIC Collaboration], *Phase-resolved energy spectra of the Crab Pulsar in the range of 50-400 GeV measured with the MAGIC Telescopes*, *Astron. Astrophys.* **540** (2012) A69.  
<http://dx.doi.org/10.1051/0004-6361/201118166>  
arXiv:1109.6124[astro-ph.HE]
- J. Aleksic *et al.* [MAGIC Collaboration], *Performance of the MAGIC stereo system obtained with Crab Nebula data*, *Astropart. Phys.* **35** (2012) 435.  
<http://dx.doi.org/10.1016/j.astropartphys.2011.11.007>  
arXiv:1108.1477[astro-ph.IM]
- J. Aleksic *et al.* [MAGIC Collaboration], *Mrk 421 active state in 2008: the MAGIC view, simultaneous multi-wavelength observations and SSC model constrained*, *Astron. Astrophys.* **542** (2012) A100.  
<http://dx.doi.org/10.1051/0004-6361/201117442>  
arXiv:1106.1589[astro-ph.HE]
- J. Aleksic *et al.* [MAGIC Collaboration], *Observations of the Crab pulsar between 25 GeV and 100 GeV with the MAGIC I telescope*, *Astrophys. J.* **742** (2011) 43.  
<http://dx.doi.org/10.1088/0004-637X/742/1/43>  
arXiv:1108.5391[astro-ph.HE]
- LAT:2011aa A. A. Abdo *et al.* [LAT and MAGIC Collaborations], *Fermi large area telescope observations of Markarian 421: The missing piece of its spectral energy distribution*, *Astrophys. J.* **736**, 131 (2011)  
<http://dx.doi.org/10.1088/0004-637X/736/2/131>  
arXiv:1106.1348 [astro-ph.HE]
- J. Aleksic *et al.* [MAGIC Collaboration], *PG 1553+113: five years of observations with MAGIC*, *Astrophys. J.* **748** (2012) 46.  
<http://dx.doi.org/10.1088/0004-637X/748/1/46>  
arXiv:1101.2764[astro-ph.CO]
- J. Aleksic *et al.* [The MAGIC Collaboration], *Searches for Dark Matter annihilation signatures in the Segue 1 satellite galaxy with the MAGIC-I telescope*, *JCAP* **1106** (2011) 035.  
<http://dx.doi.org/10.1088/1475-7516/2011/06/035>  
arXiv:1103.0477[astro-ph.HE]
- J. Aleksic *et al.* [The MAGIC Collaboration], *A search for Very High Energy gamma-ray emission from Scorpius X-1 with the MAGIC telescopes*, *Astrophys. J.* **735** (2011) L5.  
<http://dx.doi.org/10.1088/2041-8205/735/1/L5>  
arXiv:1103.5677[astro-ph]
- J. Aleksic *et al.* [The MAGIC Collaboration], *MAGIC observations and multiwavelength properties of the quasar 3C279 in 2007 and 2009*, *Astron. Astrophys.* **530** (2011) A4.  
<http://dx.doi.org/10.1051/0004-6361/201116497>  
arXiv:1101.2522[astro-ph]
- J. Aleksic *et al.* [The MAGIC Collaboration], *MAGIC discovery of VHE Emission from the FSRQ PKS 1222+21*, *Astrophys. J.* **730** (2011) L8.  
<http://dx.doi.org/10.1088/2041-8205/730/1/L8>  
arXiv:1101.4645[astro-ph]
- V.A. Acciari *et al.* [The VERITAS and MAGIC Collaborations], *Spectral Energy Distribution of Markarian 501: Quiescent State vs. Extreme Outburst*, *Astrophys. J.* **729** (2011) 2.  
<http://dx.doi.org/10.1088/0004-637X/729/1/2>  
arXiv:1012.2200 [astro-ph]
- J. Aleksić *et al.* [The MAGIC Collaboration], *Observations of the Blazar 3C 66A with the MAGIC Telescopes in Stereoscopic Mode*, *Astrophys. J.* **726** (2011) 58.  
<http://dx.doi.org/10.1088/0004-637X/726/2/58>  
arXiv:1010.0550 [astro-ph.HE]
- A. A. Abdo *et al.* [The Fermi-LAT, MAGIC and VERITAS Collaborations] *Insights into the High-energy gamma-ray Emission of Markarian 501 from Extensive Multifrequency Observations in the Fermi Era*, *Astrophys. J.* **727** (2011) 129.  
<http://dx.doi.org/10.1088/0004-637X/727/2/129>

- arXiv:1011.5260 [astro-ph.HE]
- Aleksic:2010ck J. Aleksic *et al.* [MAGIC Collaboration], *Gamma-ray excess from a stacked sample of high- and intermediate-frequency peaked blazars observed with the MAGIC telescope*, *Astrophys. J.* **729**, 115 (2011)  
<http://dx.doi.org/10.1088/0004-637X/729/2/115>  
arXiv:1002.2951 [astro-ph.HE]
  - J. Aleksić *et al.* [The MAGIC Collaboration], *MAGIC Upper Limits for two Milagro-detected, Bright Fermi Sources in the Region of SNR G65.1+0.6*, *Astrophys. J.* **725** (2010) 1629-1632.  
<http://dx.doi.org/10.1088/0004-637X/725/2/1629>  
arXiv:1007.3359 [astro-ph.HE]
  - J. Aleksić *et al.* [The MAGIC Collaboration], *Magic constraints on Gamma-ray emission from Cygnus X-3*, *Astrophys. J.* **721** (2010) 843-855.  
<http://dx.doi.org/10.1088/0004-637X/721/1/843>  
arXiv:1005.0740 [astro-ph.HE]
  - J. Aleksić *et al.* [The MAGIC Collaboration], *MAGIC observation of the GRB080430 afterglow*, *Astron. Astrophys.* **517** (2010) A5.  
<http://dx.doi.org/10.1051/0004-6361/200913461>  
arXiv:1004.3665 [astro-ph.HE]
  - J. Aleksić *et al.* [The MAGIC Collaboration], *Search for an extended VHE gamma-ray emission from Mrk 421 and Mrk 501 with the MAGIC Telescope*, *Astron. Astrophys.* **524** (2010) 77.  
<http://dx.doi.org/10.1051/0004-6361/201014747>  
arXiv:1004.1093 [astro-ph.HE]
  - J. Aleksić *et al.* [The MAGIC Collaboration], *MAGIC TeV Gamma-Ray Observations of Markarian 421 during Multiwavelength Campaigns in 2006*, *Astron. Astrophys.* **519** (2010) A32.  
<http://dx.doi.org/10.1051/0004-6361/200913945>  
arXiv:1001.1291 [astro-ph.CO]
  - J. Aleksić *et al.* [The MAGIC Collaboration], *Simultaneous multi-frequency observation of the unknown redshift blazar PG 1553+113 in March-April 2008*, *Astron. Astrophys.* **515** (2010) A76.  
<http://dx.doi.org/10.1051/0004-6361/200913607>  
arXiv:0911.1088 [astro-ph.HE]
  - J. Aleksić *et al.* [The MAGIC Collaboration], *Detection of very high energy gamma-ray emission from the Perseus cluster head-tail galaxy IC 310 by the MAGIC telescopes*, *Astrophys. J. Lett.* **723** (2010) L207-212.  
<http://dx.doi.org/10.1088/2041-8205/723/2/L207>  
arXiv:1009.2155 [astro-ph.HE]
  - H. Anderhub *et al.* [The MAGIC Collaboration], *Search for Very High Energy Gamma-ray Emission from Pulsar-Pulsar Wind Nebula Systems with the MAGIC Telescope*, *Astrophys. J.* **710** (2010) 828-835.  
<http://dx.doi.org/10.1088/0004-637X/710/1/828>
  - J. Aleksić *et al.* [The MAGIC Collaboration], *MAGIC Gamma-Ray Telescope Observation of the Perseus Cluster of Galaxies: Implications for Cosmic Rays, Dark Matter and NGC 1275*, *Astrophys. J.* **710** (2010) 634-647.  
<http://dx.doi.org/10.1088/0004-637X/710/1/634>  
arXiv:0909.3267 [astro-ph.HE]
  - H. Anderhub *et al.* [The MAGIC Collaboration], *Correlated X-ray and Very High Energy emission in the gamma-ray binary LS I +61 303*, *Astrophys. J.* **706** (2009) L27-L32.  
<http://dx.doi.org/10.1088/0004-637X/706/1/L27>  
arXiv:0910.4381 [astro-ph.HE]
  - H. Anderhub *et al.* [The MAGIC Collaboration], *Simultaneous Multiwavelength observation of Mkn 501 in a low state in 2006*, *Astrophys. J.* **705** (2009) 1624-1631.  
<http://dx.doi.org/10.1088/0004-637X/705/2/1624>  
arXiv:0910.2093 [astro-ph.HE]
  - H. Anderhub *et al.* [The MAGIC Collaboration], *Discovery of very High Energy gamma-Rays from the Blazar S5 0716+714*, *Astrophys. J. Lett.* **704** (2009) L129-133,  
<http://dx.doi.org/10.1088/0004-637X/704/2/L129>  
arXiv:0907.2386 [astro-ph.CO]
  - V. A. Acciari *et al.* [The VERITAS and the MAGIC Collaborations], *Simultaneous Multiwave-*

- length Observations of Markarian 421 During Outburst*, *Astrophys. J.* **703** (2009) 169.  
<http://dx.doi.org/10.1088/0004-637X/703/1/169>  
arXiv:0907.3923 [astro-ph.HE]
- V. A. Acciari *et al.* [The VERITAS, HESS and MAGIC Collaborations, the VLBA Monitoring Team], *Radio Imaging of the Very-High-Energy Gamma-Ray Emission Region in the Central Engine of a Radio Galaxy*, *Science* **325** (2009) 444-448.  
<http://dx.doi.org/10.1126/science.1175406>  
arXiv:0908.0511 [astro-ph.HE]
  - H. Seta *et al.* [The KANATA and MAGIC Collaboration], *Suzaku and Multi-wavelength Observations of OJ 287 during the Periodic Optical Outburst in 2007*, *Publ. Astr. Soc. Jap.* **61** (2009) 1011.  
<http://dx.doi.org/10.1093/pasj/61.5.1011>  
arXiv:0906.0234 [astro-ph.CO]
  - H. Anderhub *et al.* [The MAGIC Collaboration], *Search for VHE  $\gamma$ -ray emission from the globular cluster M13 with the MAGIC telescope*, *Astrophys. J.* **702** (2009) 266-269.  
<http://dx.doi.org/10.1088/0004-637X/702/1/266>  
arXiv:0905.2427 [astro-ph.HE]
  - J. Albert *et al.* [The MAGIC Collaboration], *MAGIC Observations of PG 1553+113 during a Multiwavelength Campaign in July 2006*, *Astron. Astrophys.* **493** (2009) 467,  
<http://dx.doi.org/10.1051/0004-6361:20079048>  
arXiv:0812.3037 [astro-ph]
  - I. Donnarumma *et al.* [The AGILE, GASP-WEBT, MAGIC and VERITAS Collaborations], *The June 2008 flare of Markarian 421 from optical to TeV energies*, *Astrophys. J.* **691** (2009) L13-L19.  
<http://dx.doi.org/10.1088/0004-637X/691/1/L13>  
arXiv:0812.1500 [astro-ph]
  - H. Anderhub *et al.* [The MAGIC Collaboration], *MAGIC upper limits to the VHE gamma-ray flux of 3C454.3 in high emission state*, *Astron. Astrophys.* **498** (2009) 83.  
<http://dx.doi.org/10.1051/0004-6361/200811326>  
arXiv:0811.1680 [astro-ph]
  - E. Aliu *et al.* [The MAGIC Collaboration], *Discovery of a very high energy gamma-ray signal from the 3C 66A/B region*, *Astrophys. J. Lett.* **692** (2009) L29.  
<http://dx.doi.org/10.1088/0004-637X/692/1/L29>  
arXiv:0810.4712 [astro-ph]
  - E. Aliu *et al.* [The MAGIC Collaboration], *Improving the performance of the single-dish Cherenkov telescope MAGIC through the use of signal timing*, *Astropart. Phys.* **30** (2009) 293-305.  
<http://dx.doi.org/10.1016/j.astropartphys.2008.10.003>  
arXiv:0810.3568 [astro-ph]
  - E. Aliu *et al.* [The MAGIC Collaboration], *Upper limits on the VHE gamma-ray emission from the Willman 1 satellite galaxy with the MAGIC Telescope*, *Astrophys. J.* **697** (2009) 1299-1304.  
<http://dx.doi.org/10.1088/0004-637X/697/2/1299>  
arXiv:0810.3561 [astro-ph]
  - J. Albert *et al.* [The MAGIC Collaboration], *Periodic very high energy gamma-ray emission from LS I +61 303 observed with the MAGIC telescope*, *Astrophys. J.* **693** (2009) 303-310.  
<http://dx.doi.org/10.1088/0004-637X/693/1/303>  
arXiv:0806.1865 [astro-ph]
  - E. Aliu *et al.* [The MAGIC Collaboration], *Observation of pulsed gamma-rays above 25 GeV from the Crab pulsar with MAGIC*, *Science* **322** (2008) 1221-1224.  
<http://dx.doi.org/10.1126/science.1164718>  
arXiv:0809.2998 [astro-ph]
  - E. Aliu *et al.* [The MAGIC Collaboration], *First bounds on the high-energy emission from isolated Wolf-Rayet binary systems*, *Astrophys. J.* **685** (2008) L71-L74.  
<http://dx.doi.org/10.1086/592433>  
arXiv:0808.1832 [astro-ph]
  - E. Aliu *et al.* [The MAGIC Collaboration], *Very-High-Energy Gamma Rays from a Distant Quasar: How Transparent Is the Universe?*, *Science* **320** (2008) 1752.  
<http://dx.doi.org/10.1126/science.1157087>  
arXiv:0807.2822 [astro-ph]



- J. Albert *et al.* [The MAGIC Collaboration], *MAGIC Observations of a 13-Day Flare Complex in M87 in February 2008*, *Astrophys. J.* **685** (2008) L23-L26.  
<http://dx.doi.org/10.1086/592348>  
arXiv:0806.0988 [astro-ph]
- J. Albert *et al.* [The MAGIC Collaboration], *Multi-wavelength (radio, X-ray and gamma-ray) observations of the gamma-ray binary LS I +61 303*, *Astrophys. J.* **684** (2008) 1351-1358.  
<http://dx.doi.org/10.1086/590332>  
arXiv:0801.3150 [astro-ph]
- G. Tagliaferri *et al.* [The MAGIC Collaboration], *Simultaneous multiwavelength observations of the blazar 1ES1959+650 at a low TeV flux*, *Astrophys. J.* **679** (2008) 1029  
<http://dx.doi.org/10.1086/586731>  
arXiv:0801.4029 [astro-ph]
- J. Albert *et al.* [The MAGIC Collaboration], *Upper limit for gamma-ray emission above 140-GeV from the dwarf spheroidal galaxy Draco*, *Astrophys. J.* **679** (2008) 428-431.  
<http://dx.doi.org/10.1086/529135>  
arXiv:0711.2574 [astro-ph]
- J. Albert *et al.* [The MAGIC Collaboration], *Implementation of the Random Forest Method for the Imaging Atmospheric Cherenkov Telescope MAGIC*, *Nucl. Instrum. Meth.* **A588** (2008) 424-432.  
<http://dx.doi.org/10.1016/j.nima.2007.11.068>  
arXiv:0709.3719 [astro-ph]
- J. Albert *et al.* [The MAGIC Collaboration], J. Ellis *et al.*, *Probing Quantum Gravity using Photons from a flare of the active galactic nucleus Markarian 501 Observed by the MAGIC telescope*, *Phys. Lett.* **B668** (2008) 253-257.  
<http://dx.doi.org/10.1016/j.physletb.2008.08.053>  
arXiv:0708.2889 [astro-ph]
- J. Albert *et al.* [The MAGIC Collaboration], *Systematic search for VHE gamma-ray emission from X-ray bright high-frequency BL Lac objects*, *Astrophys. J.* **681** (2008) 944-953.  
<http://dx.doi.org/10.1086/587499>  
arXiv:0706.4453 [astro-ph]
- J. Albert *et al.* [The MAGIC Collaboration], *MAGIC observations of the unidentified TeV gamma-ray source TeV J2032+4130*, *Astrophys. J.* **675** (2008) L25-L28.  
<http://dx.doi.org/10.1086/529520>  
arXiv:0801.2391 [astro-ph]
- J. Albert *et al.* [The MAGIC Collaboration], *VHE Gamma-Ray Observation of the Crab Nebula and Pulsar with MAGIC*, *Astrophys. J.* **674** (2008) 1037-1055.  
<http://dx.doi.org/10.1086/525270>  
arXiv:0705.3244 [astro-ph]
- J. Albert *et al.* [The MAGIC Collaboration], *FADC signal reconstruction for the MAGIC Telescope*, *Nucl. Instrum. Meth.* **A594** (2008) 407-419.  
<http://dx.doi.org/10.1016/j.nima.2008.06.043>  
arXiv:0612385 [astro-ph]
- Albert:2007ei J. Albert *et al.* [MAGIC Collaboration], *Constraints on the steady and pulsed VHE gamma-ray emission from observation of PSR B1951+32/CTB 80 with the MAGIC Telescope*, *Astrophys. J.* **669**, 1143 (2007)  
<http://dx.doi.org/10.1086/521807>  
arXiv:0702077 [astro-ph]
- J. Albert *et al.* [The MAGIC Collaboration], *Unfolding of differential energy spectra in the MAGIC experiment*, *Nucl. Instrum. Meth.* **A583** (2007) 494-506.  
<http://dx.doi.org/10.1016/j.nima.2007.09.048>  
arXiv:0707.2453 [astro-ph]
- J. Albert *et al.* [The MAGIC Collaboration], *Variable VHE gamma-ray emission from Markarian 501*, *Astrophys. J.* **669** (2007) 862-883.  
<http://dx.doi.org/10.1086/521382>  
arXiv:0702008 [astro-ph]
- J. Albert *et al.* [The MAGIC Collaboration], *Discovery of Very High Energy gamma-rays from 1ES1011+496 at  $z=0.212$* , *Astrophys. J.* **667** (2007) L21-L23.  
<http://dx.doi.org/10.1086/521982>  
arXiv:0706.4435 [astro-ph]

- J. Albert *et al.* [The MAGIC Collaboration], *Very High Energy Gamma-ray Radiation from the Stellar-mass Black Hole Cygnus X-1*, *Astrophys. J.* **665** (2007) L51  
<http://dx.doi.org/10.1086/521145>  
 arXiv:0706.1505 [astro-ph]
- J. Albert *et al.* [The MAGIC Collaboration], *Discovery of VHE Gamma Radiation from IC443 with the MAGIC Telescope*, *Astrophys. J.* **664** (2007) L87-L90.  
<http://dx.doi.org/10.1086/520957>  
 arXiv:0705.3119 [astro-ph]

#### WHITE BOOKS

- A. De Angelis *et al.* [e-ASTROGAM Collaboration], *Science with e-ASTROGAM: A space mission for MeV–GeV gamma-ray astrophysics*, *JHEAp* **19**, 1 (2018)  
 doi:10.1016/j.jheap.2018.07.001  
 [arXiv:1711.01265 [astro-ph.HE]]
- B.S. Acharya *et al.* [CTA Consortium], *Science with the Cherenkov Telescope Array*, World Scientific (2019).  
 ISBN: 978-981-3270-08-4  
 doi:10.1142/10986  
 World Scientific ePrint 10.1142/10986  
 arXiv:1709.07997 [astro-ph.HE]

#### PREPRINTS

- N. Mirabal, D. Nieto, S. Pardo, *The exotic fraction among unassociated Fermi sources* (2010).  
 arXiv:1007.2644 [astro-ph.HE]
- D. Nieto, N. Mirabal, *Willman 1: An X-ray shot in the dark with Chandra* (2010).  
 arXiv:1003.3745 [astro-ph.CO]

#### INVITED CONFERENCE CONTRIBUTIONS

- D. Nieto [CTA Consortium], *Dark matter searches in the very-high-energy gamma-ray band: can deep learning help?*, *Cosmology 2018 in Dubrovnik*, Dubrovnik, Croatia (October 2018).
- D. Nieto [CTA Consortium], *Machine learning in the Cherenkov Telescope Array*, *New paths in data analysis and open data provision in Astronomy and Astroparticle Physics*, Cambridge, United Kingdom (October 2018).
- D. Nieto [CTA Consortium], *Enhancing the sensitivity to dark matter signatures in the very-high-energy gamma-ray band through machine learning*, *DM-Stat: Statistical Challenges in the Search for Dark Matter*, Banff International Research Station, Canada (February 2018).

#### CONFERENCE CONTRIBUTIONS

- D. Nieto *et al.*, *CTLearn: Deep Learning for Gamma-ray Astronomy*, 36th International Cosmic Ray Conference, Madison (WI), U.S.A (July 2019).  
 PoS(2019)752  
 arXiv:1912.09877 [astro-ph.IM]
- D. Nieto *et al.*, *Studying deep convolutional neural networks with hexagonal lattices for imaging atmospheric Cherenkov telescope event reconstruction*, 36th International Cosmic Ray Conference, Madison (WI), U.S.A (July 2019).  
 PoS(2019)753  
 arXiv:1912.09898 [astro-ph.IM]
- A. Brill, [...], D. Nieto *et al.* *Investigating a Deep Learning Method to Analyze Images from Multiple Gamma-ray Telescopes*, *Proceedings of the 2019 New York Scientific Data Summit (NYSDS)*, New York (2019).  
 doi.org/10.1109/NYSDS.2019.8909697  
 arXiv:2001.03602 [astro-ph.HE]
- D. Nieto [CTA Consortium], *Prototype 9.7 m Schwarzschild-Couder telescope for the Cherenkov Telescope Array: status of the optical system* (poster), 35th International Cosmic Ray Conference, Busan, South Korea (July 2017).  
 doi.org/10.22323/1.301.0815  
 PoS(2017)815  
 arXiv:1709.06324 [astro-ph.IM]
- D. Nieto [CTA Consortium], *Exploring deep learning as an event classification method for the Cherenkov Telescope Array* (poster), 35th International Cosmic Ray Conference, Busan, South Korea (July 2017).  
 doi.org/10.22323/1.301.0809

PoS(2017)809

arXiv:1709.05889 [astro-ph.IM]

- D. Nieto [for the VERITAS Collaboration], *Scrutinizing the gamma-ray sky for dark matter subhalos* (talk), American Physical Society Meeting, Salt Lake City, USA (April 2016).
- D. Nieto [for the VERITAS Collaboration], *Uncovering dark matter subhalos with Fermi-LAT and VERITAS* (talk), Sixth International Fermi Symposium, Washington D.C., USA (November 2015).
- D. Nieto [for the VERITAS Collaboration], *The VERITAS program on indirect dark matter searches* (poster), Sixth International Fermi Symposium, Washington D.C., USA (November 2015).
- D. Nieto *et al.* [for the VERITAS Collaboration], *Hunting for dark matter subhalos among the Fermi-LAT sources with VERITAS* (poster), 34th International Cosmic Ray Conference, The Hague, The Netherlands (August 2015).  
arXiv:1509.00085[astro-ph.HE]
- D. Nieto *et al.* [CTA Consortium], *Construction of a medium-sized Schwarzschild-Couder telescope as a candidate for the Cherenkov Telescope Array: development of the optical alignment system* (poster), 34th International Cosmic Ray Conference, The Hague, The Netherlands (August 2015).  
arXiv:1509.02463[astro-ph.IM]
- K. Byrum,[...], D. Nieto *et al.* [CTA Consortium], *A Medium Sized Schwarzschild-Couder Cherenkov Telescope Mechanical Design Proposed for the Cherenkov Telescope Array* (poster), 34th International Cosmic Ray Conference, The Hague, The Netherlands (August 2015).  
arXiv:1509.03074[astro-ph.IM]
- J. Rousselle,[...], D. Nieto *et al.* [CTA Consortium], *Construction of a Schwarzschild-Couder telescope as a candidate for the Cherenkov Telescope Array: status of the optical system* (poster), 34th International Cosmic Ray Conference, The Hague, The Netherlands (August 2015).  
arXiv:1509.01143[astro-ph.IM]
- T. Hassan, B. Humensky, D. Nieto *et al.* [CTA Consortium], *Layout design studies for medium-sized telescopes within the Cherenkov Telescope Array* (poster), 34th International Cosmic Ray Conference, The Hague, The Netherlands (August 2015).  
arXiv:1508.06076[astro-ph.IM]
- D. Nieto [for the VERITAS Collaboration], *Indirect Dark matter Searches with VERITAS* (talk), Roma International Conference on Astroparticle Physics (RICAP), Noto, Italy (September 2014).
- D. Nieto *et al.*, *Following Up Gravitational Wave Transients with the Cherenkov Telescope Array* (poster), Roma International Conference on Astroparticle Physics (RICAP), Noto, Italy (September 2014).
- J. Rousselle,[...], D. Nieto *et al.* [CTA Consortium], *Schwarzschild-Couder telescope for the Cherenkov Telescope Array: Development of the Optical System*, 33rd International Cosmic Ray Conference, Rio de Janeiro, Brazil (July 2013).  
arXiv:1307.4072[astro-ph.IM]
- J. Rousselle,[...], D. Nieto *et al.* [CTA Consortium], *Schwarzschild-Couder telescope for the Cherenkov Telescope Array: Development of the Optical System*, SPIE Optics + Photonics 2013 (August 2013).  
arXiv:1307.4072[astro-ph.IM]
- D. Nieto [for the CTA Consortium], *Dark matter detection prospects with the Cherenkov Telescope Array* (talk), 13th International Conference on Topics in Astroparticle and Underground Physics Asilomar, California USA (September 2013).
- D. Nieto *et al.*, *A search for dark matter subhalo candidates in the gamma-ray band* (poster), 13th International Conference on Topics in Astroparticle and Underground Physics Asilomar, California USA (September 2013).
- D. Nieto [for the VERITAS Collaboration], *Indirect dark matter searches with VERITAS* (poster), 13th International Conference on Topics in Astroparticle and Underground Physics Asilomar, California USA (2013).
- D. Nieto *et al.*, *Search for Dark Matter Subhalos in the High-Energy Gamma-ray Band with Fermi and the Cherenkov Telescope Array*, contribution to the Community Summer Study (Snowmass) 2013, Cosmic Frontier Group.  
arXiv:1305.0312[astro-ph.HE]
- M. Wood,[...], D. Nieto, *et al.*, *Prospects for Indirect Detection of Dark Matter with CTA*,

- contribution to the Community Summer Study (Snowmass) 2013, Cosmic Frontier Group.  
arXiv:1305.0302[astro-ph.HE]
- D. Nieto [for the CTA Consortium], *Dark matter detection prospects for the Cherenkov Telescope Array* (poster), Fourth Fermi Symposium, Monterey CA, USA (October 2012).
  - D. Nieto *et al.* [for the MAGIC Collaboration], *The search for galactic dark matter clumps with Fermi and MAGIC* (talk), 32<sup>nd</sup> International Cosmic Ray Conference, Beijing, China (2011).  
arXiv:1109.5935 [astro-ph.HE]
  - D. Nieto *et al.* [for the CTA Consortium], *On the detectability of dwarf galaxies with the Cherenkov Telescope Array* (poster), 32<sup>nd</sup> International Cosmic Ray Conference, Beijing, China (2011).  
arXiv:1111.2183[astro-ph.HE]
  - J. Aleksić, [...], D. Nieto [for the MAGIC Collaboration], *Segue 1: the best dark matter candidate dwarf galaxy surveyed by MAGIC* (poster), 32<sup>nd</sup> International Cosmic Ray Conference, Beijing, China (2011).  
arXiv:1109.6781 [astro-ph.CO]
  - D. Nieto *et al.*, *A search for possible Dark Matter subhalos as IACT targets in the First Fermi Catalog* (poster), Third Fermi Symposium, Rome, Italy (2011).  
arXiv:1110.4744[astro-ph.HE]
  - S. Paiano, M. Doro, D. Nieto, *et al.* [for the MAGIC Collaboration], *Searches for Dark Matter signatures in the Segue 1 dwarf spheroidal galaxy with the MAGIC-I telescope* (poster), Third Fermi Symposium, Rome, Italy (2011).  
arXiv:1110.6775[astro-ph.HE]
  - D. Nieto [for the MAGIC Collaboration], *Indirect Dark Matter Searches with MAGIC* (talk), Ninth UCLA Symposium on Sources and Detection of Dark Matter and Dark Energy in the Universe, Marina del Rey CA (February 2010).
  - D. Nieto and J. A. R. Cembranos, *Dark Matter: evidences, theories and searches* (talk), Dark Matter Awareness Week, Universidad Complutense de Madrid (2010).
  - D. Nieto and N. Mirabal, *An X-Ray search for the sterile neutrino in Willman-1* (poster), IX Spanish Society of Astronomy Meeting, Madrid, Spain (2010).
  - D. Nieto [on behalf of the MAGIC Collaboration] *Indirect Dark Matter Searches with MAGIC* (talk), IX Spanish Society of Astronomy Meeting, Madrid, Spain (2010).
  - D. Nieto and N. Mirabal, *Willman-1 in X-rays* (talk), Second MultiDark Workshop, IFCA Santander, Spain (2010).
  - S. Pardo, D. Nieto *et al.*, *The On-Site Analysis of the MAGIC Telescope* (poster), IX Meeting of the Spanish Astronomical Society, Highlights of Spanish Astrophysics V, Madrid, Spain (2010).
  - S. Lombardi,[...], D. Nieto *et al.* [for the MAGIC Collaboration], *Search for Dark Matter signatures with MAGIC-I and prospects for MAGIC Phase-II* (poster), 31<sup>st</sup> International Cosmic Ray Conference, Łódź (2009).  
arXiv:0907.0738 [astro-ph.HE]
  - I. Reichardt,[...], D. Nieto *et al.* [for the MAGIC Collaboration], *The MAGIC Data Center* (poster), 31<sup>st</sup> International Cosmic Ray Conference, Łódź, Poland (2009).  
arXiv:0907.0968 [astro-ph.IM]
  - I. Oya,[...],D. Nieto (co-Author) *et al.*, *Data Quality Check and On-Site Analysis of the MAGIC Telescope*, VIII Meeting of the Spanish Astronomical Society, Santander, Spain (2008).
  - C. Malagon, J. A. Barrio, D. Nieto, *Automatic image classification from Cherenkov telescopes using Bayesian ensemble of neural networks*, IEEE 3rd International Workshop on Soft Computing Applications, Szeged-Arad, Romania (2009).
  - C. Malagon, J. A. Barrio, D. Nieto *et al.*, *Classification Methods for MAGIC Telescope Images on a Pixel-by-pixel base*, 30<sup>th</sup> International Cosmic Ray Conference, **3** (2008) 1473-1476, Merida, Mexico.  
[inspirehep:1371375].
  - C. Malagon, J. A. Barrio, D. S. Parcerisa, D. Nieto, *Representations and image classification methods for Cherenkov telescopes*, AIP Conf. Proc. **1018** (2008) 184-185.
  - D. Nieto, *Constraining the total baryon number of the Universe with XMM-Newton high resolution spectra*, European Space Astronomy Center Trainee Symposium, Madrid, Spain (2006).
  - D. Nieto *et al.*, *Deep Learning CTA with TensorFlow*, Analysis and Simulations Working Group

Meeting, Barcelona, Spain (April 2018).

- D. Nieto *et al.*, *Deep Learning CTA*, CTA Consortium General Meeting, La Palma, Spain (November 2017).
- D. Nieto *et al.*, *pSCT panel-to-panel alignment system: status of the mirror panel edge sensors*, CTA-US Meeting, Tucson, USA (February 2016).
- D. Nieto *et al.*, *pSCT panel-to-panel alignment system: status of the mirror panel edge sensors*, CTA-US Meeting, Tucson, USA (August 2015).
- D. Nieto *et al.*, *pSCT panel-to-panel alignment system: status of the mirror panel edge sensors*, CTA-US Meeting, Tucson, USA (January 2015).
- D. Nieto *et al.*, *Medium-sized Schwarzschild-Couder telescope mechanical and optical systems: status update*, CTA Consortium General Meeting, Catania, Italy (September 2014).
- D. Nieto *et al.*, *pSCT panel-to-panel alignment system: status of the mirror panel edge sensors*, CTA-US Meeting, University of Minnesota, Minneapolis, USA (July 2014).
- D. Nieto *et al.*, *SCTs in Prod2: Preliminary Analyses*, CTA-US Meeting, University of Minnesota, Minneapolis, USA (July 2014).
- D. Nieto *et al.*, *Optical Structure Alignment System: Design, Prototyping and Procurement*, Schwarzschild-Couder Telescope Technical Review, Warsaw, Poland (September 2013).
- D. Nieto *et al.*, *pSCT panel-to-panel alignment system: status of the mirror panel edge sensors*, CTA-US Meeting, University of California Los Angeles, Los Angeles, USA (January 2013).
- D. Nieto, *Development of the pSCT mirror panel edge sensors*, CTA Consortium General Meeting, Chicago, USA (October 2012).
- D. Nieto *et al.*, *Analysis and availability of Hybrid-1 simulations*, CTA Consortium General Meeting, Rome, Italy (May 2012).
- D. Nieto, *Impact of dead space in the camera on trigger efficiency and effective area*, CTA Consortium General Meeting, Rome, Italy (May 2012).

INTERNAL  
VERITAS  
CONTRIBUTIONS

- D. Nieto, *The VERITAS dark matter program*, Fermi-VERITAS-HAWC Workshop, University of Utah, Salt Lake City, U.S.A. (April 2016).
- D. Nieto, *Observations of dark matter subhalo candidates: status update*, VERITAS Collaboration Meeting, Tucson, U.S.A. (February 2016).
- D. Nieto, *Observations of dark matter subhalo candidates: status update*, VERITAS Collaboration Meeting, National University of Ireland, Galway, Ireland (July 2015).
- D. Nieto, *Observations of dark matter subhalo candidates: status update*, VERITAS Collaboration Meeting, Tucson, USA (January 2015).
- D. Nieto, *Observations of dark matter subhalo candidates: a status report*, VERITAS Collaboration Meeting, University of Minnesota, Minneapolis, USA (July 2014).
- D. Nieto (presented by M. Errando), *Report on Dark Matter Searches in Unassociated Fermi Objects*, VERITAS Collaboration Meeting, DESY-Zeuthen, Germany (June 2013).
- D. Nieto, *Report on Dark Matter Searches in Unassociated Fermi Objects*, VERITAS Collaboration Meeting, Santa Cruz CA, USA (February 2013).

INTERNAL MAGIC  
CONTRIBUTIONS

- D. Nieto, *Report on the Unidentified Fermi Objects observations*, MAGIC Collaboration Meeting, Split (2010).
- D. Nieto, *Status of the On-Site Analysis*, MAGIC Collaboration Meeting, Split (2010).
- D. Nieto, *Introduction to the On-Site Analysis*, MAGIC Stereo Workshop, Dortmund (2010).
- D. Nieto, *Status of the On-Site Analysis*, MAGIC Collaboration Meeting, Munich (2010).
- I. Oya, D. Nieto *et al.*, *MAGIC On-Site Analysis Program*, MAGIC-TDAS **09-03** (2009).
- I. Oya, [...], D. Nieto *et al.*, *MAGIC Data Check Program*, MAGIC-TDAS **09-02** (2009).

CONFERENCES,  
WORKSHOPS AND  
SCHOOLS (AS  
ATTENDANT)

- ESCAPE Kick-off Meeting, CNRS - Laboratoire d'Annecy de Physique des Particules, Annecy, France (February 2019).
- Halo Substructure and Dark Matter Searches Workshop, Instituto de Física Teórica - UAM/CSIC, Madrid, Spain (June 2018).
- ESAC Data Analysis and Statistics Workshop, European Space and Astronomy Centre, Madrid, Spain (November 2017).

- Second ASTERICS-OBELICS Workshop, Barcelona, Spain (October 2017).
- Ethics of Artificial Intelligence, New York University, New York, USA (October 2016).
- Data Science @ HEP, Simons Foundation, New York, USA (July 2016).

UNIVERSITY  
PUBLICATIONS

- Ph.D. Thesis: *Dark matter constraints from high-energy astrophysical observations*, Universidad Complutense de Madrid, Spain (2012).
- M.S. Thesis: *Detection of TeV gamma-rays with MAGIC Telescope*, Universidad Complutense de Madrid, Spain (2006).
- Examenarbeit: *Demagnetization of shielding shells for the ESCA-Laser Laboratory*, Uppsala University, Sweden (2004).