

List of Publications

October 17, 2017

Peer-Reviewed Papers

- [1] H. Ndiyavala, P. Paulus Kruger, and C. Venter. Identifying the brightest Galactic globular clusters for future observations by H.E.S.S. and CTA. *arXiv:1708.09817*.
- [2] Z. Wadiasingh, A. K. Harding, C. Venter, M. Böttcher, and M. G. Baring. Constraining Relativistic Bow Shock Properties in Rotation-powered Millisecond Pulsar Binaries. *The Astrophysical Journal*, 839:80, April 2017.
- [3] C. Maitra, F. Acero, and C. Venter. Constraining the geometry of PSR J0855-4644: A nearby pulsar wind nebula with double torus/jet morphology. *Astronomy & Astrophysics*, 597:A75, January 2017.
- [4] M. Barnard, C. Venter, and A. K. Harding. The Effect of an Offset Polar Cap Dipolar Magnetic Field on the Modeling of the Vela Pulsar's γ -Ray Light Curves. *The Astrophysical Journal*, 832:107, December 2016.
- [5] C. Venter, A. Kopp, A. K. Harding, P. L. Gonthier, and I. Büsching. Cosmic-ray Positrons from Millisecond Pulsars. *The Astrophysical Journal*, 807:130, July 2015.
- [6] C. Venter, A. Kopp, P. L. Gonthier, A. K. Harding, and I. Büsching. The Contribution of Millisecond Pulsars to the Galactic Cosmic-Ray Lepton Spectrum. *Advances in Space Research*, 55:1529–1536, January 2015.
- [7] T. J. Johnson, C. Venter, A. K. Harding, L. Guillemot, D. A. Smith, M. Kramer, Ö. Çelik, P. R. den Hartog, E. C. Ferrara, X. Hou, J. Lande, and P. S. Ray. Constraints on the

- Emission Geometries and Spin Evolution of Gamma-Ray Millisecond Pulsars. *ApJS*, 213:6, July 2014.
- [8] A. Kopp, C. Venter, I. Büsching, and O. C. de Jager. Multi-wavelength Modeling of Globular Clusters – The Millisecond Pulsar Scenario. *The Astrophysical Journal*, 779:126, December 2013.
- [9] C. Venter, T. J. Johnson, and A. K. Harding. Modeling Phase-aligned Gamma-Ray and Radio Millisecond Pulsar Light Curves. *The Astrophysical Journal*, 744:34, January 2012.
- [10] C. Venter and O. C. De Jager. Accelerating High-energy Pulsar Radiation Codes. *The Astrophysical Journal*, 725:1903–1909, December 2010.
- [11] C. Venter, A. K. Harding, and L. Guillemot. Probing Millisecond Pulsar Emission Geometry Using Light Curves from the Fermi/Large Area Telescope. *The Astrophysical Journal*, 707:800–822, December 2009.
- [12] C. Venter, O. C. de Jager, and A.-C. Clapson. Predictions of Gamma-Ray Emission from Globular Cluster Millisecond Pulsars Above 100 MeV. *The Astrophysical Journal Letters*, 696:L52–L55, May 2009.
- [13] I. Buesching, C. Venter, and O. C. de Jager. Contributions from nearby pulsars to the local cosmic ray electron spectrum. *Advances in Space Research*, 42:497–503, August 2008.
- [14] C. Venter and O. C. de Jager. Constraining A General-Relativistic Frame-Dragging Model for Pulsed Radiation from a Population of Millisecond Pulsars in 47 Tucanae using GLAST LAT. *The Astrophysical Journal Letters*, 680:L125–L128, June 2008.
- [15] I. Buesching, O. C. de Jager, M. S. Potgieter, and C. Venter. A Cosmic Ray Positron

Anisotropy due to Two Middle-Aged, Nearby Pulsars? *The Astrophysical Journal Letters*, 678:L39–L42, 2008.

[16] C. Venter and O. C. de Jager. Spectral Constraints for Millisecond Pulsars Due to General Relativistic Frame Dragging. *Astrophysics and Space Science*, 297:399–407, June 2005.

[17] C. Venter and O. C. de Jager. Empirical Constraints on the General Relativistic Electric Field Associated with PSR J0437-4715. *The Astrophysical Journal Letters*, 619:L167–L170, February 2005.

Peer-Reviewed Conference Proceedings

[1] M. Barnard, C. Venter, and A. K. Harding. High-energy pulsar light curves in an offset polar cap B -field geometry. *Proc. High-Energy Astrophysics in Southern Africa (HEASA2016; arXiv:1702.05236)*, ed. M. Boettcher, D. Buckley, S. Colafrancesco, P. Meintjes, and S. Razzaque, *in press*, February 2017.

[2] C. Venter. New Advances in Pulsar Magnetosphere Modelling. *Proc. of High-Energy Astrophysics in Southern Africa (HEASA2016; arXiv:1702.00732)*, ed. M. Boettcher, D. Buckley, S. Colafrancesco, P. Meintjes, and S. Razzaque, *in press*, February 2017.

[3] M. Breed, C. Venter, and A. K. Harding. Very-high-energy emission from pulsars. *Proc. 60th Annual Conference of the South African Institute of Physics (SAIP2015)*, ISBN:978-0-620-70714-5 (*arXiv:1607.06480*), ed. Makaiko Chithambo & André Venter, Available online at <http://events.saip.org.za>, pages 278–283, July 2016.

[4] A. S. Seyffert, C. Venter, A. K. Harding, J. Allison, and WD Schutte. Implementation of a goodness-of-fit test for finding optimal concurrent radio and gamma-ray pulsar light curves.

- Proc. 60th Annual Conference of the South African Institute of Physics (SAIP2015)*, ISBN:978-0-620-70714-5 (*arXiv:1611.01076*), ed. Makaiko Chithambo & André Venter, Available online at <http://events.saip.org.za>, pages 350–355, July 2016.
- [5] Z. Wadiasingh, A. K. Harding, C. Venter, and M. Boettcher. The Aid of Optical Studies in Understanding Millisecond Pulsar Binaries. *Proc. SALT Science Conference (SSC2015; arXiv:1602.06803)*, February 2016.
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- [7] Z. Wadiasingh, A. K. Harding, C. Venter, and M. Böttcher. High Energy Emission from Black Widows and Redbacks. In *Proc. 3rd Annual Conference on High Energy Astrophysics in Southern Africa (HEASA2015; arXiv:1512.07320; Proceedings of Science, ISSN 1824-8039)*, page 29, January 2016.
- [8] M. Breed, C. Venter, A. K. Harding, and T. J. Johnson. The effect of an offset-dipole magnetic field on the Vela pulsar’s gamma-ray light curves. *Proc. SAIP2014, the 59th Annual Conference of the South African Institute of Physics*, ISBN: 978-0-620-65391-6 (*arXiv:1504.06816*), ed. Chris Engelbrecht & Steven Karataglidis. Available online at <http://events.saip.org.za>, pages 311–316, April 2015.
- [9] C. Van Rensburg, P. P. Krüger, and C. Venter. Spectral modelling of a H.E.S.S.-detected pulsar wind nebula. *Proc. SAIP2014, the 59th Annual Conference of the South African Institute of Physics*, ISBN: 978-0-620-65391-6 (*arXiv:1504.05043*), ed. Chris Engelbrecht

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- [10] C. Venter and A. Kopp. Modelling the average spectrum expected from a population of gamma-ray globular clusters. *Proc. SAIP2014, the 59th Annual Conference of the South African Institute of Physics, ISBN: 978-0-620-65391-6 (arXiv:1504.04953)*, ed. Chris Engelbrecht & Steven Karataglidis. Available online at <http://events.saip.org.za>, pages 394–399, April 2015.
- [11] M. Breed, C. Venter, A. K. Harding, and T. J. Johnson. The Effect of Different Magnetospheric Structures on Predictions of Gamma-ray Pulsar Light Curves. *Proc. SAIP2012, the 57th Annual Conference of the South African Institute of Physics, ISBN: 978-1-77592-070-0 (arXiv:1501.05117)*, ed. Johan Janse van Rensburg. Available online at www.saip.org.za, pages 316–321, January 2015.
- [12] T. E. Marubini, R. R. Sefako, C. Venter, and O. C. de Jager. A search for optical counterparts of the complex Vela X system. *Proc. SAIP2012, the 57th Annual Conference of the South African Institute of Physics, ISBN: 978-1-77592-070-0 (arXiv:1501.00278)*, ed. Johan Janse van Rensburg. Available online at www.saip.org.za, pages 340–345, January 2015.
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- [17] A. S. Seyffert, C. Venter, A. K. Harding, and T. J. Johnson. Modelling the γ -ray and radio light curves of the double pulsar system. *Proc. SAIP2013, the 58th Annual Conference of the South African Institute of Physics, ISBN: 978-0-620-62819-8 (arXiv:1411.0559), ed. Roelf Botha and Thulani Jili. Available online at www.saip.org.za, pages 380–384, November 2014.*
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- [20] C. Venter. The Status of H.E.S.S. and CTA, and Their Role in a Multiwavelength Context. *African Skies*, 16:61, March 2012.
- [21] A. S. Seyffert, C. Venter, T. J. Johnson, and A. K. Harding. Constraining viewing geometries of pulsars with single-peaked gamma-ray profiles using a multiwavelength approach. *Proc. SAIP2011, the 56th Annual Conference of the South African Institute of Physics, ISBN: 978-1-86888-688-3. (arXiv:1201.4272)*, ed. I. Basson & A.E. Botha. Available online at www.saip.org.za, pages 531–536, December 2011.
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Conference Proceedings

- [1] C. Venter, A. Kopp, A. K Harding, P. L Gonthier, and I. Buesching. The millisecond pulsar contribution to the rising positron fraction. *34th ICRC, the Hague, the Netherlands*

(*arXiv:1508.04676*), March 2016.

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- [3] T. J. Johnson, A. K. Harding, C. Venter, J. E. Grove, Fermi LAT Collaboration, and Pulsar Timing Consortium. Modeling the pulse profiles of millisecond pulsars in the second LAT catalog of γ -ray pulsars. In F. A. Aharonian, W. Hofmann, and F. M. Rieger, editors, *Proceedings of the 5th International Symposium on High-Energy Gamma-Ray Astronomy, AIP Conf. Ser. (arXiv:1210.1504)*, volume 1505 of *American Institute of Physics Conference Series*, pages 325–328, December 2012.
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- [5] C. Venter, O. C. de Jager, A. Kopp, and I. Büsching. Modeling High-energy and Very-high-energy gamma-rays from the Terzan 5 Cluster. *Third Fermi Symp. Proc., eConf C110509 (arXiv:1111.1289)*, November 2011.
- [6] C. Venter, T. J. Johnson, and A. K. Harding. Modeling Light Curves of the Phase-Aligned

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- [9] L. Guillemot, I. Cognard, T. J. Johnson, C. Venter, and A. K. Harding. Multiwavelength analysis of four millisecond pulsars. *AIPC*, 1357:241, January 2011.
- [10] T. J. Johnson, C. Venter, A. K. Harding, and L. Guillemot. Observations and Modeling of Gamma-ray Millisecond Pulsars seen with the Fermi LAT. *AIPC*, 1357:237, January 2011.
- [11] A. S. Seyffert, C. Venter, O. C. de Jager, and A. K. Harding. Geometric modeling of radio and gamma-ray light curves of 6 Fermi-LAT pulsars. In F. M. Rieger, C. van Eldik, and W. Hofmann, editors, *Proceedings of the 25th Texas Symposium on Relativistic Astrophysics (arXiv:1105.4094)*, 2010.
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H.E.S.S. Papers (as Member of the Collaboration)

- [1] H. Abdalla et al. Measurement of the EBL spectral energy distribution using the VHE γ -ray spectra of H.E.S.S. blazars. *Astronomy & Astrophysics*, 606:A59, October 2017.
- [2] H. Abdalla et al. Gamma-ray blazar spectra with H.E.S.S. II mono analysis: The case of $\text{jASTROBJjPKS 2155-304j/ASTROBJj}$ and $\text{jASTROBJjPG 1553+113j/ASTROBJj}$. *Astronomy & Astrophysics*, 600:A89, April 2017.
- [3] H. Abdalla et al. Characterizing the γ -ray long-term variability of PKS 2155-304 with H.E.S.S. and Fermi-LAT. *Astronomy & Astrophysics*, 598:A39, January 2017.
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- [8] A. Abramowski et al. Discovery of variable VHE γ -ray emission from the binary system 1FGL J1018.6-5856. *Astronomy & Astrophysics*, 577:A131, May 2015.
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- [10] A. Abramowski et al. The 2012 Flare of PG 1553+113 Seen with H.E.S.S. and Fermi-LAT. *The Astrophysical Journal*, 802:65, March 2015.
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- [12] A. Abramowski et al. H.E.S.S. detection of TeV emission from the interaction region between the supernova remnant G349.7+0.2 and a molecular cloud. *Astronomy & Astrophysics*, 574:A100, February 2015.
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- [14] A. Abramowski et al. Discovery of the VHE gamma-ray source HESS J1832-093 in the vicinity of SNR G22.7-0.2. *MNRAS*, 446:1163–1169, January 2015.

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- [16] A. Abramowski et al. The high-energy γ -ray emission of AP Librae. *Astronomy & Astrophysics*, 573:A31, January 2015.
- [17] A. Abramowski et al. Diffuse Galactic gamma-ray emission with H.E.S.S. *Physical Review D*, 90(12):122007, December 2014.
- [18] A. Abramowski et al. Search for dark matter annihilation signatures in H.E.S.S. observations of dwarf spheroidal galaxies. *Physical Review D*, 90(11):112012, December 2014.
- [19] A. Abramowski et al. Long-term monitoring of PKS 2155-304 with ATOM and H.E.S.S.: investigation of optical/ γ -ray correlations in different spectral states. *Astronomy & Astrophysics*, 571:A39, November 2014.
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- [22] A. Abramowski et al. Search for TeV Gamma-ray Emission from GRB 100621A, an extremely bright GRB in X-rays, with H.E.S.S. *Astronomy & Astrophysics*, 565:A16, May 2014.
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- [36] A. Abramowski et al. Search for very-high-energy γ -ray emission from Galactic globular clusters with H.E.S.S. *Astronomy & Astrophysics*, 551:A26, March 2013.
- [37] A. Abramowski et al. Measurement of the extragalactic background light imprint on the spectra of the brightest blazars observed with H.E.S.S. *Astronomy & Astrophysics*, 550:A4, February 2013.
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