

PUBLICATIONS
Prof. Heinrich J. Völk

Part 2: Other publications: Papers in Conference Proceedings, and in non-refereed Journals. Experiment Proposals. Book Chapters. Edited Books.

1. H.J. Völk, K. Bernlöhr
Imaging Very High Energy Gamma-Ray Telescopes
400 Years of Astronomical Telescopes
A Review of History, Science and Technology,
Bernhard R. Brandl • Remko Stuik • Jeannette Katgert-Merkelijn,
Editors.
Springer Science and Business Media , 2009
ISBN: 978-90-481-2232-5
2. Berezhko, E. G. and Völk, H. J.
Comparing a model of cosmic ray production in the supernova remnant RX J1713.7-3946 with observations
Proc. 30th ICRC (Merida), 2007, in press (2008); [arXiv:0707.4647]
3. E.G. Berezhko, G. Pühlhofer, and H.J. Völk:
Theory of cosmic ray and gamma-ray production in the supernova remnant RX J0852.0-4622 (Vela Jr.)
Proc. 30th ICRC (Merida), 2007, in press (2008); [arXiv:0707.4661]
4. H.J. Völk, E.G. Berezhko, and L.T. Ksenofontov:
New evidence for strong nonthermal effects in Tycho's supernova remnant
Astrophys. Space Res. 309, 389-394 (2007)
5. E.G. Berezhko, L.T. Ksenofontov, and H.J. Völk:
Gamma-ray emission expected from Kepler's SNR
Astrophys. and Space Sci., 309, 385-388 (2007)
6. H.J. Völk:
Kosmische Strahlung: Das nichtthermische Universum.
In „Kosmische Spurensuche. Astroteilchenphysik in Deutschland. Ein Forschungsgebiet im Aufbruch“. Ed: Komitee für Astroteilchenphysik (KAT); FZ Karlsruhe GmbH,
pp. 58-59 (2006) [[http://www. Astroteilchenphysik.de](http://www.Astroteilchenphysik.de)]
7. H.J. Völk:
Particle Acceleration in Supernova Remnants and the Resulting Nonthermal Emission.
In: Proceedings of the International Workshop: “ENERGY BUDGET IN THE HIGH ENERGY UNIVERSE”, February 22-24, 2006, Kashiwa, Japan. (Eds.: K. Sato and J. Hisano), World Scientific Publishing Co. Pte. Ltd., 5 Toh Tuck Link, Singapore 596224, 175-188 (2007)
8. H. J. Völk:
Neue Ergebnisse der Gammaastronomie.
Sterne und Weltraum (SuW), 45, 8, 36-45 (2006)
9. F. A. Aharonian, H. J. Völk, D. Horns:
High Energy Gamma-Ray Astronomy.
Proceedings of the 2nd International Symposium on High Energy Gamma-Ray Astronomy ,

July 26.-30, 2004, in Heidelberg, Germany; Ed. F.A. Aharonian, H. J. Völk & D. Horns, ISBN 0-7354-02229-9, 821 p. with CD-ROM, AIP Conf. Proc., Vol. 745, Melville, New York (2005)

10. H. J. Völk:
Shell-type Supernova remnants.
In Proc. Cherenkov 2005 Conference “Towards a Network of Atmospheric Cherenkov Detectors VII”, (B. Degrange, G. Fontaine, eds.), Ecole Polytechnique, Palaiseau, pp. 233-245 (2006) [<http://edoc.mpg.de/display.epl?mode=doc&id=247066&col=37&grp=441>]; arXiv:astro-ph/0603502]
11. H. J. Völk:
New results from High Energy Gamma-Ray Astronomy.
In “Populations of High Energy Sources in Galaxies”, Proc. IAU Symposium No. 230, 2005 (E.J.A. Meurs, G. Fabbiano, eds.), pp. 95-102, Cambridge University Press (2006) [<http://edoc.mpg.de/display.epl?mode=doc&id=247067&col=37&grp=441>]; arXiv:astro-ph/0603501
12. L.T. Ksenofontov, E.G. Berezhko, and H. J. Völk:
Gamma-ray Models for SN 1006 using different astronomical parameters.
Proceedings of the 2nd Int. Symp. On High Energy Gamma-Ray Astronomy, Heidelberg, ed. F.A. Aharonian, D. Horns & H. J. Völk (Melville, New York: AIP), p. 281-286 (2005)
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High Energy Gamma-Ray Astronomy.
Proc. of the 8th International Workshop on Topics in Astroparticle and Underground Physics (TAUP2003), University of Washington, Seattle, USA 5.-9. September 2004 Nuclear Physics (Proc. Suppl.) 138, 492-501 (2005)
14. C.C. Popescu, R. J. Tuffs, B.F. Madore, A. Gil de Paz, H.J. Völk & the GALEX Team:
A comparative Study of the spatial distribution of ultraviolet and far-infrared fluxes from M 101.
In Proceedings of “The Dusty and Molecular Universe: A Prelude to Herschel and ALMA”, meeting held in Paris, France, October 27-29, 2004, Ed. A. Wilson. ESA SP-577, Noordwijk, Netherlands: ESA Publications Division, ISBN 92-9092-855-7, p. 313 (2005)
15. R.J. Tuffs, C.C. Popescu, H.J. Völk, N.D. Kylafis & M.A. Dopita:
The effect of the Bulge-to-disk Ratio on the Derived Opacities of Spiral Galaxies.
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16. R.J. Tuffs, C.C. Popescu & H.J. Völk:
Far-Infrared Mapping of Cassiopeia A with ISOPHOT.
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17. C.C. Popescu, R.J. Tuffs, B.F. Madore, A. Gil de Paz, H.J. Völk & the GALEX Team:
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19. R.J. Tuffs, C.C. Popescu, H.J. Völk:
The nature of the cold dust Surrounding Gas-Rich Dwarf Galaxies in the Virgo Cluster.
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20. H. Hippelein, M. Haas, R.J. Tuffs, D. Lemke, M. Stickel, U. Klaas, and H.J. Völk:
The spiral galaxy M 33 mapped in the FIR by ISOPHOT: A spatially resolved study of the warm and cold dust.
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The far-infrared/radio correlation in the ISO era: The warm and cold far-infrared/radio correlations.
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23. C.C. Popescu, Z. Banhidi, R. Chini, M. Dumke, R.J. Tuffs, H.J. Völk, and R. Wielebinski:
Submillimeter Photometry of the ISOPHOT Virgo Cluster Deep Sample.
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24. C.C. Popescu, R.J. Tuffs, and H.J. Völk:
The Far-infrared Disk Sizes of the Galaxies from the ISOPHOT Virgo Cluster Deep Sample.
Short Contributions presented at the Annual Scientific Meeting of the Astronomische Gesellschaft in Freiburg, 15.-20. September 2003, *Astronomische Nachrichten* 324, Suppl. Issue 3, Ed.: Reinhard E. Schielicke, p. 162-162 (2003)
25. E.G. Berezhko and H.J. Völk:
Inverse Compton Gamma-Ray Background due to Supernova Remnants.
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Cosmic Ray Acceleration by Spiral Shocks in the Galactic Wind.
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Systematic Variation of Cosmic Ray Injection Across Supernova Shocks.
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