

SOLAR SYSTEM PHYSICS GROUP

IMPACS, ABERYSTWYTH UNVIERSTY

PUBLICATION LIST 01/2010-01/2015

- This list is ordered alphabetically by last name.
- This list contains *refereed publications only*, published or accepted for publication between 01/2010 and present
- The list is not unique. The same publication will appear more than once if more than one author are a member of the group.
- For people who have left the group, only publications affiliated with Aberystwyth are included.
- Due to the complexity of maintaining this list, there are possible errors and omissions for which we apologise
- Enquiries to hmorgan@aber.ac.uk, last updated January 2015

Bewsher, Danielle:

1. [2010JGRA..11504103R](#) Intermittent release of transients in the slow solar wind: 1. Remote sensing observations, Rouillard, A. P.; Davies, J. A.; Lavraud, B.; Forsyth, R. J.; Savani, N. P.; Bewsher, D.; Brown, D. S.; Sheeley, N. R.; Davis, C. J.; Harrison, R. A.; *and 5 coauthors*, Journal of Geophysical Research, Volume 115, Issue A4, CitelD A04103 Apr 2010
2. [2010AdSpR..45....1H](#) Coronal mass ejections in the heliosphere, Harrison, R. A.; Davis, C. J.; Bewsher, D.; Davies, J. A.; Eyles, C. J.; Crothers, S. R., Advances in Space Research, Volume 45, Issue 1, p. 1-9. Jan 2010

Bisi, Mario:

1. **Bisi, M.M.**, R.A. Fallows, A.R. Breen, and I.J. O'Neill, "Interplanetary Scintillation Observations of Stream Interaction Regions in the Solar Wind", Solar Physics, 261 (1), pp.149-172, doi:10.1007/s11207-009-9471-1, 2010
2. Jackson, B.V., P.P. Hick, A. Buffington, **M.M. Bisi**, J.M. Clover, M. Tokumaru, and K. Fujiki, "3D Reconstruction of Density Enhancements Behind Interplanetary Shocks from Solar Mass Ejection Imager White-Light Observations", AIP Conf. Proc., CP1216, Twelfth International Solar Wind Conference, pp.659-662, 2010
3. **Bisi, M.M.**, B.V. Jackson, J.M. Clover, M. Tokumaru, and K. Fujiki, "Large-Scale Heliospheric Structure during Solar-Minimum Conditions using a 3D Time-Dependent Reconstruction Solar-Wind Model and STELab IPS Observations", AIP Conf. Proc., CP1216, Twelfth International Solar Wind Conference, pp.355-358, doi:10.1063/1.3395873, 2010
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5. **Bisi, M.M.**, R.A. Fallows, P.K. Manoharan, G.D. Dorrian, B.V. Jackson, J.M. Clover, P.P. Hick, A. Buffington, and A.R. Breen, "Solar Wind and CME Studies of the Inner Heliosphere Using IPS Data from ORT and EISCAT", Proc. 5th Asia-Oceania Geophysical Society General Assembly, Advances in Geosciences, Volume 21: Solar & Terrestrial Science (2008), Chapter 3, pp.33-49, 2010
6. Jackson, B.V., P.P. Hick, A. Buffington, **M.M. Bisi**, and J.M. Clover, "Solar Mass Ejection Imager (SMEI) and Interplanetary Scintillation (IPS) 3D-Reconstructions of the Inner Heliosphere", Proc. 6th Asia-Oceania Geophysical Society General Assembly, Advances in Geosciences, Volume 21: Solar & Terrestrial Science (2008), Chapter 25, pp.339-366, 2010
7. Clover, J.M., B.V. Jackson, A. Buffington, P.P. Hick, and **M.M. Bisi**, "Solar Wind Speed Inferred from Cometary Plasma Tails using Observations from STEREO HI-1", The Astrophysical Journal, 713, pp.394-397, doi:10.1088/0004-637X/713/1/394, 2010
8. Jensen, E.A., P.P. Hick, **M.M. Bisi**, B.V. Jackson, J. Clover, and T. Mulligan, "Faraday Rotation Response to Coronal Mass Ejection Structure", Solar Physics "Remote Sensing of the Inner Heliosphere" Topical Issue (Guest Editors **M.M. Bisi** and A.R. Breen), 265 (1-2),

9. Jackson, B.V., P.P. Hick, **M.M. Bisi**, J.M. Clover, and A. Buffington, "Inclusion of *In-Situ* Velocity Measurements into the UCSD Time-Dependent Tomography to Constrain and Better-Forecast Remote-Sensing Observations", Solar Physics "Remote Sensing of the Inner Heliosphere" Topical Issue (Guest Editors **M.M. Bisi** and A.R. Breen), 265 (1-2), pp.245-256, doi:10.1007/s11207-010-9529-0, 2010
10. Jackson, B.V., A. Buffington, P.P. Hick, **M.M. Bisi**, and J.M. Clover, "A Heliospheric Imager for Deep Space: Lessons Learned from HELIOS, SMEI, and STEREO", Solar Physics "Remote Sensing of the Inner Heliosphere" Topical Issue (Guest Editors **M.M. Bisi** and A.R. Breen), 265 (1-2), pp.257-275, doi:10.1007/s11207-010-9579-3, 2010
11. **Bisi, M.M.**, B.V. Jackson, A.R. Breen, G.D. Dorrian, R.A. Fallows, J.M. Clover, and P.P. Hick, "Three-Dimensional (3-D) Reconstructions of EISCAT IPS Velocity Data in the Declining Phase of Solar Cycle 23", Solar Physics "Remote Sensing of the Inner Heliosphere" Topical Issue (Guest Editors **M.M. Bisi** and A.R. Breen), 265 (1-2), pp.233-244, doi:10.1007/s11207-010-9594-4, 2010
12. **Bisi, M.M.**, A.R. Breen, B.V. Jackson, R.A. Fallows, A.P. Walsh, Z. Mikić, P. Riley, C.J. Owen, A. Gonzalez-Esparza, E. Aguilar-Rodriguez, H. Morgan, E.A. Jensen, A.G. Wood, M.J. Owens, M. Tokumaru, P.K. Manoharan, I.V. Chashei, A.S. Giunta, J.A. Linker, V.I. Shishov, S.A. Tyul'bashev, G. Agalya, S.K. Glubokova, M.S. Hamilton, K. Fujiki, P.P. Hick, J.M. Clover, and B. Pintér, "From the Sun to the Earth: The 13 May 2005 Coronal Mass Ejection", Solar Physics "Remote Sensing of the Inner Heliosphere" Topical Issue (Guest Editors **M.M. Bisi** and A.R. Breen), 265 (1-2), pp.49-127, doi:10.1007/s11207-010-9602-8, 2010
13. Jackson, B.V., A. Buffington, P.P. Hick, J.M. Clover, **M.M. Bisi**, and D.F. Webb, "SMEI 3-D Reconstruction of a CME Interacting with a Co-rotating Solar Wind Density Enhancement: The 26 April 2008 CME", The Astrophysical Journal, 724 (2), pp.829-834, doi:10.1088/0004-637X/724/2/829, 2010
14. **Bisi, M.M.**, B.V. Jackson, J.M. Clover, P.P. Hick, and A. Buffington, "3D Reconstructions of the Whole Heliosphere Interval and Comparison with in-Ecliptic Solar Wind Measurements from STEREO, ACE, and Wind Instrumentation: a Brief Summary", *invite-only* Proc. IAU 2009 JD16, Highlights of Astronomy, Volume 15, XXVIIth IAU General Assembly, doi:10.1017/S1743921310010331, 2010
15. Xiong, M., A.R. Breen, **M.M. Bisi**, M.J. Owens, R.A. Fallows, G.D. Dorrian, J.A. Davies, and P. Thomasson, "Forward modelling to determine the observational signatures of white-light imaging and interplanetary scintillation for the propagation of an interplanetary shock in the ecliptic plane", Journal of Atmospheric and Solar-Terrestrial Physics "Special Issue: 3D Aspects of CMEs", 73 (10), 1270-1280, doi:10.1016/j.jastp.2010.09.007, 2011
16. Jackson, B.V., P.P. Hick, A. Buffington, **M.M. Bisi**, J.M. Clover, M. Tokumaru, M. Kojima, and K. Fujiki, "Three-dimensional reconstruction of heliospheric structure using iterative tomography: a review", Journal of Atmospheric and Solar-Terrestrial Physics "Special Issue: 3D Aspects of CMEs", 73 (10), 1214-1227, doi:10.1016/j.jastp.2010.11.023, 2011
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 22. Dorrian, G.D., A.R. Breen, R.A. Fallows, and **M.M. Bisi**, "Equatorwards Expansion of Unperturbed, High-Latitude Fast Solar Wind", Solar Physics, 285, p97, 2013
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 24. Jensen, Elizabeth A.; Bisi, Mario M.; Breen, Andrew R.; Heiles, Carl; Minter, Toney; Vilas, Faith, "Measurements of Faraday Rotation Through the Solar Corona During the 2009 Solar Minimum with the MESSENGER Spacecraft", Solar Physics, 285, 2013
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2. Hardwick, S. A.; Bisi, M. M.; Davies, J. A.; Breen, A. R.; Fallows, R. A.; Harrison, R. A.; Davis, C. J., " Observations of Rapid Velocity Variations in the Slow Solar Wind", Solar Physics, 285, 2013
3. Jensen, Elizabeth A.; Bisi, Mario M.; Breen, Andrew R.; Heiles, Carl; Minter, Toney; Vilas, Faith, "Measurements of Faraday Rotation Through the Solar Corona During the 2009 Solar Minimum with the MESSENGER Spacecraft", Solar Physics, 285, 2013
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5. [2011JASTP..73.1270X](#) Forward modelling to determine the observational signatures of white-light imaging and interplanetary scintillation for the propagation of an interplanetary shock in the ecliptic plane, Xiong, Ming; Breen, A. R.; Bisi, M. M.; Owens, M. J.; Fallows, R. A.; Dorrian, G. D.; Davies, J. A.; Thomasson, P., Journal of Atmospheric and Solar-Terrestrial Physics, Volume 73, Issue 10, p. 1270-1280. Jun 2011
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Fallows, Richard:

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Forster, David:

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3. **Grande, M.**, and T. M. Knight (2013), The Future of Spacecraft Radiation Design: A Workshop at Aberystwyth University, UK, 28–30 November 2012, Space Weather, 11, doi:10.1002/swe.20102. **2013**
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