
Publications

1. **J. Squire**, R. Meyrand, and M. W. Kunz. “Electron-ion heating partition in imbalanced solar-wind turbulence”. *Astrophys. J. Lett.*, under review (2023), arXiv:2308.13048.
2. R. Meyrand, **J. Squire**, A. Mallet, and B. D. G. Chandran. “Reflection-driven turbulence in the super-Alfvénic solar wind”. *Astrophys. J.*, under review (2023), arXiv:2308.10389.
3. T. A. Bowen, S. D. Bale, B. D. G. Chandran, A. Chasapis, C. H. K. Chen, T. Dudok de Wit, A. Mallet, R. Meyrand, and **J. Squire**. “Mediation of Collisionless Turbulent Dissipation Through Cyclotron Resonance”. *Nature Astronomy*, accepted (2023), arXiv:2306.04881.
4. **J. Squire**, M. W. Kunz, L. Arzamasskiy, Z. Johnston, E. Quataert, and A. A. Schekochihin. “Pressure anisotropy and viscous heating in weakly collisional plasma turbulence”. *J. Plasma Phys.* **89.4** (2023), 905890417.
5. S. Majeski, M. W. Kunz, and **J. Squire**. “Microphysically modified magnetosonic modes in collisionless, high- β plasmas”. *J. Plasma Phys.* **89.3** (2023), 905890303.
6. L. Arzamasskiy, M. W. Kunz, **J. Squire**, E. Quataert, and A. A. Schekochihin. “Kinetic Turbulence in Collisionless High- β Plasmas”. *Phys. Rev. X* **13.2** (2023), 021014.
7. N. E. Raouafi, L. Matteini, **J. Squire**, et al. “Parker Solar Probe: Four Years of Discoveries at Solar Cycle Minimum”. *Space Sci. Rev.* **219.1** (2023), 8.
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9. **J. Squire** and A. Mallet. “On the construction of general large-amplitude spherically polarised Alfvén waves”. *J. Plasma Phys. Lett.* **88.5** (2022), 175880503.
10. **J. Squire**, Z. Johnston, A. Mallet, and R. Meyrand. “On the properties of Alfvénic switchbacks in the expanding solar wind: The influence of the Parker spiral”. *Phys. Plasmas* **29.11** (2022), 112903.
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13. T. A. Bowen, B. Chandran, **J. Squire**, S. D. Bale, D. Duan, K. G. Klein, D. Larson, A. Mallet, M. D. McManus, R. Meyrand, J. L. Verniero, and L. D. Woodham. “In Situ Signature of Cyclotron Resonant Heating in the Solar Wind”. *Phys. Rev. Lett.* **129** (2022), 165101.
14. V. Skoutnev, **J. Squire**, and A. Bhattacharjee. “On large-scale dynamos with stable stratification and the application to stellar radiative zones”. *Mon. Not. R. Astron. Soc.* **517.1** (2022), 526–542.
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16. S. Ji, **J. Squire**, and P. F. Hopkins. “Numerical Study of Cosmic Ray Confinement through Dust Resonant Drag Instabilities”. *Mon. Not. R. Astron. Soc.* **513** (2022), 282–295.
17. P. F. Hopkins, **J. Squire**, I. S. Butsky, and S. Ji. “Standard Self-Confinement and Extrinsic Turbulence Models for Cosmic Ray Transport are Fundamentally Incompatible with Observations”. *Mon. Not. R. Astron. Soc.*, in press (2021), arXiv:2112.02153.
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