Complete List of Peer-Reviewed Publications

Ramiz A Qudsi

February 21, 2023

[1] Haley DeWeese, Bennett A. Maruca, Ramiz A. Qudsi, Alexandros Chasapis, Mark Pultrone, Elliot Johnson, Sarah K. Vines, Michael A. Shay, William H. Matthaeus, Roman G. Gomez, Stephen A. Fuselier, Barbara L. Giles, Daniel J. Gershman, Christopher T. Russell, Robert J. Strangeway, James L. Burch, and Roy B. Torbert. Alpha Particle Temperature Anisotropy in Earth's Magnetosheath. *The Astrophysical Journal*, 941(1):12, December 2022. doi:10.3847/1538-4357/ac9791.

[2] Riddhi Bandyopadhyay, Ramiz A. Qudsi, S. Peter Gary, William H. Matthaeus, Tulasi N. Parashar, Bennett A. Maruca, Vadim Roytershteyn, Alexandros Chasapis, Barbara L. Giles, Daniel J. Gershman, Craig J. Pollock, Christopher T. Russell, Robert J. Strangeway, Roy B. Torbert, Thomas E. Moore, and James L. Burch. Interplay of turbulence and proton-microinstability growth in space plasmas. *Physics of Plasmas*, 29(10):102107, October 2022. doi:10.1063/5.0098625.

[3] Nikos Sioulas, Zesen Huang, Marco Velli, Rohit Chhiber, Manuel E. Cuesta, Chen Shi, William H. Matthaeus, Riddhi Bandyopadhyay, Loukas Vlahos, Trevor A. Bowen, Ramiz A. Qudsi, Stuart D. Bale, Christopher J. Owen, P. Louarn, A. Fedorov, Milan Maksimović, Michael L. Stevens, Anthony Case, Justin Kasper, Davin Larson, Marc Pulupa, and Roberto Livi. Magnetic Field Intermittency in the Solar Wind: Parker Solar Probe and SolO Observations Ranging from the Alfvén Region up to 1 AU. *The Astrophysical Journal*, 934(2):143, August 2022. arXiv:2206.00871, doi:10.3847/1538-4357/ac7aa2.

[4] Nikos Sioulas, Marco Velli, Rohit Chhiber, Loukas Vlahos, William H. Matthaeus, Riddhi Bandyopadhyay, Manuel E. Cuesta, Chen Shi, Trevor A. Bowen, Ramiz A. Qudsi, Michael L. Stevens, and Stuart D. Bale. Statistical Analysis of Intermittency and its Association with Proton Heating in the Near-Sun Environment. *The Astrophysical Journal*, 927(2):140, March 2022. arXiv:2201.10067, doi:10.3847/1538-4357/ac4fc1.

[5] C. L. Lentz, A. Chasapis, R. A. Qudsi, J. Halekas, B. A. Maruca, L. Andersson, and D. N. Baker. On the Solar Wind Proton Temperature Anisotropy at Mars' Orbital Location. *Journal of Geophysical Research (Space Physics)*, 126(10):e29438, October 2021. doi:10.1029/2021JA029438.

[6] Bennett A. Maruca, Jeffersson A. Agudelo Rueda, Riddhi Bandyopadhyay, Federica B. Bianco, Alexandros Chasapis, Rohit Chhiber, Haley DeWeese, William H. Matthaeus, David M. Miles, Ramiz A. Qudsi, Michael J. Richardson, Sergio Servidio, Michael A. Shay, David Sundkvist, Daniel Verscharen, Sarah K. Vines, Joseph H. Westlake, and

Robert T. Wicks. MagneToRE: Mapping the 3-D Magnetic Structure of the Solar Wind Using a Large Constellation of Nanosatellites. *Frontiers in Astronomy and Space Sciences*, 8:108, July 2021. doi:10.3389/fspas.2021.665885.

[7] S. Peter Gary, Riddhi Bandyopadhyay, Ramiz A. Qudsi, William H. Matthaeus, Bennett A. Maruca, Tulasi N. Parashar, and Vadim Roytershteyn. Particle-in-cell Simulations of Decaying Plasma Turbulence: Linear Instabilities versus Nonlinear Processes in 3D and 2.5D Approximations. *The Astrophysical Journal*, 901(2):160, October 2020. doi:10.3847/1538-4357/abb2ac.

[8] Riddhi Bandyopadhyay, Ramiz A. Qudsi, William H. Matthaeus, Tulasi N. Parashar, Bennett A. Maruca, S. Peter Gary, Vadim Roytershteyn, Alexandros Chasapis, Barbara L. Giles, Daniel J. Gershman, Craig J. Pollock, Christopher T. Russell, Robert J. Strangeway, Roy B. Torbert, Thomas E. Moore, and James L. Burch. Interplay of Turbulence and Proton-Microinstability Growth in Space Plasmas. *arXiv e-prints*, page arXiv:2006.10316, June 2020. arXiv:2006.10316, doi:10.48550/arXiv.2006.10316.

[9] Ramiz A. Qudsi, Riddhi Bandyopadhyay, Bennett A. Maruca, Tulasi N. Parashar, William H. Matthaeus, Alexandros Chasapis, S. Peter Gary, Barbara L. Giles, Daniel J. Gershman, Craig J. Pollock, Robert J. Strangeway, Roy B. Torbert, Thomas E. Moore, and James L. Burch. Intermittency and Ion Temperature-Anisotropy Instabilities: Simulation and Magnetosheath Observation. *The Astrophysical Journal*, 895(2):83, June 2020. arXiv:2004.06164, doi:10.3847/1538-4357/ab89ad.

[10] Jia Huang, J. C. Kasper, D. Vech, K. G. Klein, M. Stevens, Mihailo M. Martinović, B. L. Alterman, Tereza Ďurovcová, Kristoff Paulson, Bennett A. Maruca, Ramiz A. Qudsi, A. W. Case, K. E. Korreck, Lan K. Jian, Marco Velli, B. Lavraud, A. Hegedus, C. M. Bert, J. Holmes, Stuart D. Bale, Davin E. Larson, Roberto Livi, P. Whittlesey, Marc Pulupa, Robert J. MacDowall, David M. Malaspina, John W. Bonnell, Peter Harvey, Keith Goetz, and Thierry Dudok de Wit. Proton Temperature Anisotropy Variations in Inner Heliosphere Estimated with the First Parker Solar Probe Observations. *The Astrophysical Journal Supplement Series*, 246(2):70, February 2020. arXiv:1912.03871, doi:10.3847/1538-4365/ab74e0.

[11] Riddhi Bandyopadhyay, W. H. Matthaeus, T. N. Parashar, R. Chhiber, D. Ruffolo, M. L. Goldstein, B. A. Maruca, A. Chasapis, R. Qudsi, D. J. McComas, E. R. Christian, J. R. Szalay, C. J. Joyce, J. Giacalone, N. A. Schwadron, D. G. Mitchell, M. E. Hill, M. E. Wiedenbeck, Jr. McNutt, R. L., M. I. Desai, Stuart D. Bale, J. W. Bonnell, Thierry Dudok de Wit, Keith Goetz, Peter R. Harvey, Robert J. MacDowall, David M. Malaspina, Marc Pulupa, M. Velli, J. C. Kasper, K. E. Korreck, M. Stevens, A. W. Case, and N. Raouafi. Observations of Energetic-particle Population Enhancements along Intermittent Structures near the Sun from the Parker Solar Probe. *The Astrophysical Journal Supplement Series*, 246(2):61, February 2020. arXiv:1912.03424, doi:10.3847/1538-4365/ab6220.

[12] T. N. Parashar, M. L. Goldstein, B. A. Maruca, W. H. Matthaeus, D. Ruffolo, R. Bandyopadhyay, R. Chhiber, A. Chasapis, R. Qudsi, D. Vech, D. A. Roberts, S. D. Bale, J. W. Bonnell, T. Dudok de Wit, K. Goetz, P. R. Harvey, R. J. MacDowall, D. Malaspina,

M. Pulupa, J. C. Kasper, K. E. Korreck, A. W. Case, M. Stevens, P. Whittlesey, D. Larson, R. Livi, M. Velli, and N. Raouafi. Measures of Scale-dependent Alfvénicity in the First PSP Solar Encounter. *The Astrophysical Journal Supplement Series*, 246(2):58, February 2020. doi:10.3847/1538-4365/ab64e6.

[13] Riddhi Bandyopadhyay, M. L. Goldstein, B. A. Maruca, W. H. Matthaeus, T. N. Parashar, D. Ruffolo, R. Chhiber, A. Usmanov, A. Chasapis, R. Qudsi, Stuart D. Bale, J. W. Bonnell, Thierry Dudok de Wit, Keith Goetz, Peter R. Harvey, Robert J. MacDowall, David M. Malaspina, Marc Pulupa, J. C. Kasper, K. E. Korreck, A. W. Case, M. Stevens, P. Whittlesey, D. Larson, R. Livi, K. G. Klein, M. Velli, and N. Raouafi. Enhanced Energy Transfer Rate in Solar Wind Turbulence Observed near the Sun from Parker Solar Probe. *The Astrophysical Journal Supplement Series*, 246(2):48, February 2020. arXiv:1912.02959, doi:10.3847/1538-4365/ab5dae.

[14] R. A. Qudsi, B. A. Maruca, W. H. Matthaeus, T. N. Parashar, Riddhi Bandyopadhyay, R. Chhiber, A. Chasapis, Melvyn L. Goldstein, S. D. Bale, J. W. Bonnell, T. Dudok de Wit, K. Goetz, P. R. Harvey, R. J. MacDowall, D. Malaspina, M. Pulupa, J. C. Kasper, K. E. Korreck, A. W. Case, M. Stevens, P. Whittlesey, D. Larson, R. Livi, M. Velli, and N. Raouafi. Observations of Heating along Intermittent Structures in the Inner Heliosphere from PSP Data. *The Astrophysical Journal Supplement Series*, 246(2):46, February 2020. arXiv:1912.05483, doi:10.3847/1538-4365/ab5c19.

[15] Rohit Chhiber, M. L. Goldstein, B. A. Maruca, A. Chasapis, W. H. Matthaeus, D. Ruffolo, R. Bandyopadhyay, T. N. Parashar, R. Qudsi, T. Dudok de Wit, S. D. Bale, J. W. Bonnell, K. Goetz, P. R. Harvey, R. J. MacDowall, D. Malaspina, M. Pulupa, J. C. Kasper, K. E. Korreck, A. W. Case, M. Stevens, P. Whittlesey, D. Larson, R. Livi, M. Velli, and N. Raouafi. Clustering of Intermittent Magnetic and Flow Structures near Parker Solar Probe's First Perihelion—A Partial-variance-of-increments Analysis. *The Astrophysical Journal Supplement Series*, 246(2):31, February 2020. arXiv:1912.03608, doi:10.3847/1538-4365/ab53d2.

[16] T. N. Parashar, M. L. Goldstein, B. A. Maruca, W. H. Matthaeus, D. Ruffolo, R. Bandyopadhyay, R. Chhiber, A. Chasapis, R. Qudsi, D. Vech, D. A. Roberts, S. D. Bale, J. W. Bonnell, T. Dudok de Wit, K. Goetz, P. R. Harvey, R. J. MacDowall, D. Malaspina, M. Pulupa, J. C. Kasper, K. E. Korreck, A. W. Case, M. Stevens, P. Whittlesey, D. Larson, R. Livi, M. Velli, and N. Raouafi. Measures of Scale Dependent Alfvénicity in the First PSP Solar Encounter. *arXiv e-prints*, page arXiv:1912.07181, December 2019. arXiv:1912.07181, doi:10.48550/arXiv.1912.07181.

Full list of peer-reviewed publications.