

Publications in refereed journals (funding cycle 2010 - mid 2015)

1. B. Van Compernelle, X. An, J. Bortnik, R. M. Thorne, P. Pribyl, and W. Gekelman, Excitation of Chirping Whistler Waves in a Laboratory Plasma, *Phys. Rev. Lett.* 114, 245002 (2015) <http://dx.doi.org/10.1103/PhysRevLett.114.245002>
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3. B. Van Compernelle, G. J. Morales, J. E. Maggs, and R. D. Sydora, Laboratory study of avalanches in magnetized plasmas, *Phys. Rev. E* 91, 031102(R) (2015). <http://dx.doi.org/10.1103/PhysRevE.91.031102> .
4. J. E. Maggs, T.L. Rhodes, and G.J. Morales, Chaotic density fluctuations in L-mode plasmas of the DIII-D tokamak, *Plasma Phys. Control. Fusion* 57 045004 (2015) <http://dx.doi.org/10.1088/0741-3335/57/4/045004>
5. S. K. P. Tripathi, B. Van Compernelle, W. Gekelman, P. Pribyl, and W. Heidbrink, Excitation of shear Alfvén waves by a spiraling ion beam in a large magnetoplasma, *Phys. Rev. E* v91, 013109 (2015) <http://dx.doi.org/10.1103/PhysRevE.91.013109>
6. A. S. Bondarenko, D. B. Schaeffer, E. T. Everson, S. E. Clark, C. G. Constantin, and C. Niemann, Spectroscopic measurement of high-frequency electric fields in the interaction of explosive debris plasma with magnetized background plasma, *Phys. Plasmas*, v21, 122112 (2014). [DOI: 10.1063/1.4904374]
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10. Wang, Y. and Gekelman, W. and Pribyl, P. and Papadopoulos, K., Enhanced loss of magnetic-mirror-trapped fast electrons by a shear Alfvén wave, *Physics of Plasmas* (1994-present), 21, 055705 (2014), DOI:<http://dx.doi.org/10.1063/1.4874332>
11. B. Van Compernelle, J. Bortnik, P. Pribyl, W. Gekelman, M. Nakamoto, X. Tao, and R. M. Thorne, Direct Detection of Resonant Electron Pitch Angle Scattering by Whistler Waves in a Laboratory Plasma, *Phys. Rev. Lett.* 112, 145006 ? Published 10 April 2014 , <http://dx.doi.org/10.1103/PhysRevLett.112.145006>

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14. D. J. Drake, J. W. R. Schroeder, G. G. Howes, C. A. Kletzing, F. Skiff, T. A. Carter, and D. W. Auerbach, Alfvén wave collisions, the fundamental building block of plasma turbulence. IV. Laboratory experiment, *Phys. Plasmas* 20, 072901 (2013); <http://dx.doi.org/10.1063/1.4813242>
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