

- [142] D. S. Clark and N. J. Fisch, *Raman laser amplification in preformed and ionizing plasmas*, Laser and Particle Beams, **23**, (1) 101–106 (January, 2005).
- [143] W. Cheng, Y. Avitzour, Y. Ping, S. Suckewer, N. J. Fisch, M. S. Hur, and J. S. Wurtele, *Reaching Nonlinear Regime in Large Raman Amplification of Ultrashort Laser Pulses*, Physical Review Letters **94**, 045003 (February, 2005).
- [144] M. G. Raizen, A. M. Dudarev, Q. Niu and N. J. Fisch, *Compression of Atomic Phase Space Using an Asymmetric One-Way Barrier*, Physical Review Letters **94**, 053003 (February, 2005).
- [145] S. Son and N. J. Fisch, *Pycnonuclear Reaction and Possible Chain Reactions in an Ultra-Dense DT Plasma*, Physics Letters A **337**, 397407 (April, 2005).
- [146] V. M. Malkin, and N. J. Fisch, *Manipulating ultra-intense laser pulses in plasmas*, Physics of Plasma **12**, 044507 (April, 2005).
- [147] A. A. Balakin, G .M. Fraiman and N. J. Fisch, *Three-dimensional simulation of Backward Raman Amplification*, IEEE Transactions on Plasma Science **33**, No. 2, 0093-3813 (April, 2005).
- [148] A. Smirnov, Y. Raitses, and N. J. Fisch, *Maximizing Ion Current by Space Charge Neutralization using Negative Ions and Dust Particles*, Physics of Plasma **12**, 053503 (May, 2005).
- [149] Y. Raitses, D. Staack, M. Keidar, A. Smirnov, and N. J. Fisch, *Electron-wall Interactions in Hall Thrusters*, Physics of Plasma **12**, 057104 (May, 2005).

In Press

- [150] L. Dorf, Y. Raitses and N. J. Fisch, *Experimental Studies of Anode Sheath Phenomena in a Hall Thruster Discharge*, to appear in J. Applied Physics (May, 2005).
- [151] I. Y. Dodin and N. J. Fisch, *Approximate integrals of rf-driven particle motion in magnetic field*, to appear in J. Plasma Physics (June, 2005).
- [152] I. Y. Dodin and N. J. Fisch, *Variational formulation of the Gardner's restacking algorithm*, to appear in Physics Letters A (2005).
- [153] A. M. Dudarev, M. Marder, Q. Niu, N. J. Fisch, and M. G. Raizen, *Statistical Mechanics of an Optical Condenser*, to appear in Europhysics Letters (2005).
- [154] A. A. Balakin, G .M. Fraiman, N. J. Fisch, and S. Suckewer *Backward Raman Amplification in a Partially Ionized Gas*, to appear in Phys. Rev. E (2005).
- [155] Y. Raitses, D. Staack, A. Smirnov, and N. J. Fisch, *Space charge saturated sheath regime and electron temperature saturation in Hall Thrusters*, to appear in Physics of Plasma (2005).

Ib. Journal Articles under submission