

# Fusion Science and Technology

CONTENTS / MAY 2010—VOL. 57, NO. 4

## TECHNICAL PAPERS

- 305** Development and Applications of Axisymmetric Magnetic Mirror Concepts / *Thomas C. Simonen*
- 312** Use of a Gold Neutral Beam Probe to Study Fluctuation Suppression During Potential Formation in the GAMMA 10 Tandem Mirror / *M. Yoshikawa, Y. Miyata, M. Mizuguchi, N. Imai, H. Hojo, M. Ichimura, T. Kariya, I. Katanuma, Y. Nakashima, R. Minami, H. Shidara, Y. Yamaguchi, Y. Shima, Y. Ohno, F. Yaguchi, T. Imai*
- 320** Results of Recent Experiments on GDT Device After Upgrade of Heating Neutral Beams / *A. A. Ivanov, A. D. Beklemishev, E. P. Kruglyakov, P. A. Bagryansky, A. A. Lizunov, V. V. Maximov, S. V. Murakhtin, V. V. Prikhodko*
- 326** Studies of a Straight Field Line Mirror with Emphasis on Fusion-Fission Hybrids / *O. Ågren, V. E. Moiseenko, K. Noack, A. Hagnestål*
- 335** Magnetohydrodynamic Stabilization of Axisymmetric Mirror Systems Using Pulsed ECRH / *Richard F. Post*
- 343** Wave-Driven Rotation in Supersonically Rotating Mirrors / *Abraham J. Fetterman, Nathaniel J. Fisch*
- 351** Vortex Confinement of Plasmas in Symmetric Mirror Traps / *Alexei D. Beklemishev, Peter A. Bagryansky, Maxim S. Chaschin, Elena I. Soldatkina*

## TECHNICAL NOTES

- 361** Feasibility Studies of Alpha-Particle Channeling in Mirror Machines / *A. I. Zhmoginov, N. J. Fisch*
- 369** A Gas Dynamic Trap Neutron Source for Fusion Material and Subcomponent Testing / *A. Molvik, A. Ivanov, G. L. Kulcinski, D. Ryutov, J. Santarius, T. Simonen, B. D. Wirth, A. Ying*

## INDEXES/CONTENTS

- 395** Volume 57 Indexes

- v Volume 57 Contents