CONTENTS / DECEMBER 1992-VOL. 22, NO. 4

411 Comments / George Miley

ALPHA-PARTICLE SPECIAL

413 Nonlinear Dynamics of Reaction-Diffusion Systems: Analysis and Computations / Hans Wilhelmsson, Bernard Etlicher

425 On Self-Tuning Control of Tokamak Thermokinetics / George H. Miley, V. Varadarajan

439 Alpha-Particle Information on Burning Deuterium-Tritium Plasmas from Neutron Measurements / Jan Källne, Giuseppe Gorini

454 In-Beam Study of the $^8$Be($\alpha$,n)$^{12}$C Reaction and Alpha-Particle Diagnostics / Vasilij G. Kiptilyj, Alexander V. Matjukov, A. S. Mishin, Victor O. Najdenov, Igor A. Polunovskij, Leonid A. Rassadin, Igor N. Chugunov

461 Alpha-Particle Confinement in the Presence of Magnetic Ripple and Magnetohydrodynamic Perturbations / Ezio Bittoni, Marcel Haegi

470 Stabilizing Effect of Trapped Alpha Particles on Low-Frequency MHD Ballooning Modes in ITER Plasmas with Flat $q(\psi)$ Profiles / Sergei Yu. Medvedev, Sergei E. Sharapov

474 Collisionless Alpha-Particle Confinement and Loss Distribution in Stellarators as a Function of the Aspect Ratio / Franco Alladio, Paola Batistoni, Alessandro Mancuso

482 Helium Accumulation Effects Using a Benchmarked Zero-Dimensional Model / Shin Chang Hu, George H. Miley

TECHNICAL PAPERS

FIRST-WALL TECHNOLOGY

490 Thermal Transients Due to Plasma Sweeping on the Monoblock Divertor Plate for ITER / Vito Renda, Loris Papa, Antonio Soria


(Continued)
TECHNICAL NOTES ON COLD FUSION

511 Polyneutrons as Agents for Cold Nuclear Reactions / John C. Fisher
518 Observation of Stars Produced During Cold Fusion / Takaaki Matsumoto

DEPARTMENTS

407 Authors
524 Technical Reviewers
526 Volume 22 Indexes
v Volume 22 Contents