

Theory Grant Applications Funded in FY 2001

INSTITUTION Principal Investigator	Project Title
CALIFORNIA, UNIV. OF LA Leboeuf	Computer Modeling of Microturbulence and Macro-stability Properties of Magnetically Confined Plasmas
CALIFORNIA, UNIV. OF SAN DIEGO Diamond, Rosenbluth	Investigations in Anomalous Transport and Ignition Physics
COLORADO, UNIVERSITY OF Cary	Transport in Toroidal Confinement Configurations and Advanced Computational Methods for Fusion Applications
COLUMBIA UNIVERSITY Boozer	Resistive Wall Modes, Neoclassical Transport, and Stellarator Design
LEHIGH UNIVERSITY Kritz	Evolution of Heated Tokamak Plasmas
NEW YORK UNIVERSITY Weitzner, Garabedian	Plasma Properties (Task III) Advanced Toroidal Theory (Task VII)
OLD DOMINION UNIVERSITY Vahala	Physics of Divertors
TEXAS, UNIVERSITY OF Ross	Plasma Confinement Theory and Modeling
TEXAS, UNIVERSITY OF Van Dam	Institute for Fusion Studies
WISCONSIN, UNIVERSITY OF Prager, Callen, Terry	Theoretical Studies Related to Reversed Field Pinch Physics
WISCONSIN, UNIVERSITY OF Callen	Nonlinear and Nonideal MHD
WISCONSIN, UNIVERSITY OF Shaing	Neoclassical Theory and its Applications

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AUBURN UNIVERSITY Pindzola	Theoretical Atomic Collision Physics for Controlled Fusion Energy
GENERAL ATOMICS Chan	Fusion Theory
KURCHATOV INSTITUTE Vdovin	Development of Scientific Simulation 3D Full ICRF Code for Stellarators and Heating/CD Scenarios Development
MARYLAND, UNIVERSITY OF Drake	Maryland Controlled Fusion Research Program
MARYLAND, UNIVERSITY OF Hassam	Theoretical Considerations for Centrifugally Confined Plasmas
ROCHESTER, UNIVERSITY OF Betti	Magnetohydrodynamics of Tokamak Plasma with Arbitrary Flow: Equilibrium, Stability and Nonlinear Evolution
SCIENCE APPLICATIONS INTL CORP Schnack	Transport and Dynamics in Toroidal Fusion Systems
WASHINGTON, UNIVERSITY OF Steinhauer	Physics of Field-Reversed Configurations
WILLIAM AND MARY, COLLEGE OF Vahala	Theoretical Plasma Physics
WISCONSIN, UNIVERSITY OF Terry	Turbulence and Anomalous Transport in Toroidal Confinement Devices
WISCONSIN, UNIVERSITY OF Hegna	Theoretical Studies of Near Symmetric Stellarator Plasmas

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INSTITUTION Principal Investigator	Project Title
AUBURN UNIVERSITY Hanson	Magnetic Field and MHD Studies in Stellarators
COLUMBIA UNIVERSITY Boozer	Resistive Wall Modes and Error Field Amplification
LODESTAR RESEARCH CORPORATION D'Ippolito	Basic Research in Magnetically-Confined Fusion Plasmas
MASSACHUSETTS INST. OF TECH. Coppi	Physics of High Energy Plasmas
MASSACHUSETTS INST. OF TECH. Porkolab	Theoretical Research in Advanced Physics and Technology
NEW YORK UNIVERSITY Zaslavsky	Investigation of Anomalous Transport and Study of Particle Dynamics in the Ergodic Layer
ROLLINS COLLEGE Griffin	Theory of Electron-Ion Collisions
SOUTHEASTERN LOUISIANA UNIV. McCarthy	Numerical Simulations of Plasma Turbulence in the Tokamak Edge
WISCONSIN, UNIVERSITY OF Sovinec	Numerical Studies of Magnetohydrodynamic Activity Resulting from Inductive Transients