CD [Cross Disciplinary]

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Simulations for understanding Alfven Eigenmode Mitigation physics in KSTAR Experiment Investigation of the evolution and interaction of e-ITB and core MHD in J-TEXT Impact of resonant magnetic perturbation on L-H transition dynamics in HL-2A and HL-3 tokamaks Dynamics of transport barriers formation in HL-3 experiment and gyro-kinetic simulations Closure models for simulations of drift wave turbulence Comprehensive study of the transport and kinetic source of helium ash from alpha particles Radiative Mixing Lavers and the Density Limit Impact of edge turbulence spreading on broadening the heat flux width in plasma approaching the density limit Cross-field diffusion of magnetized low temperature plasmas near separatrix A Particle-In-Cell simulation study Theory of impurity effects on electromagnetic instabilities and the associative transport in the tokamak pedestal Ion-electron temperature equilibration in magnetized collisionless shocks Nonlinear interactions between toroidal Alfven eigenmode and microturbulence Impacts of self-organized zonal fields on BAE nonlinear dynamics in phase space Interaction among magnetic island, flow and turbulence and its impact in plasma confinement Self-generated oscillations in a magnetic island Multi-scale interactions in KSTAR disruptive plasmas with forced magnetic islands; A global gyrokinetic analysis Transition from electrostatic to electromagnetic instabilities in magnetised plasmas Analyzing Phase Mixing and ITG Dynamics through Mode Decomposition Methods Interplay between nonlinear transport crossphase and zonal modes in two-field ITG turbulence Trapping and de-trapping bifurcation of drift wave turbulence by zonal flows based on a reduced fluid model Stochastic Lagrangian Formulations of Transport for Coherent Structure Dominated Turbulence Diagnostic Strategy for Phase-Space Entropy Cascade in Electron-Scale Turbulence of Laboratory Plasma Turbulence localization in zonal flows in Hasegawa-Wakatani model Experimental Measurement of Local and Nonlocal Turbulence in Magnetically Confined Plasma Applications of Momentum Theorem to Magnetized Plasma Non-local transport nature revealed by experiments in toroidal plasmas Avalanches in MFE and Implications for the Heat Load Width Avalanche-like heat transport events related to microscopic turbulent vortex dynamics How 'the tail wags the dog': physics of edge-core coupling by inward turbulence spreading Minimizing turbulent transport in stellarator by optimizing zonal flow dynamics and radial electric field Non-axisymmetric magnetic fields effect on rotation and turbulence in KSTAR Effects of RMP on edge-core turbulence spreading and coupling in a tokamak plasma Benign saturation of ideal ballooning instability in a high-performance stellarator Effect of helical perturbations on magnetic braking and neoclassical transport in tokamak plasmas Multi-Scale Interaction for ELM Suppression in the Tokamak Edge Large-scale multifractality and non-self-similar energy decay in one- dimensional (1D) Burgers and three-dimensional (3D) Navier-Stokes turbulence Fundamental Results from the World's Largest Simulation of Compressible MHD Turbulence: Applications to Astrophysical and Space Plasmas Fast Hybrid Neural Interpolation of Nonlinear Dynamics Modeling Nonlinear and Chaotic Dynamics with Interpretable Data-Driven Reduced Order Models On collisionless saturation of zonal flow shear in ITG turbulence: Implications for negative triangularity. On subcritical excitations of plasma turbulence Mixing in a two-dimensional fluid and the curvature of the flow domain; how to drive the vorticity field evolve towards the statistical equilibrium Reducing turbulent transport in tokamaks by combining intrinsic rotation and the low momentum diffusivity regime Intrinsic momentum and current drive by almost-rational surfaces in tokamaks Extracting stochastic model for predator-prey dynamic of turbulence and zonal flow with limited data The Role of Alpha Particles in Turbulence Suppression and Confinement Enhancement in ITER and SPARC Investigation of Alfvén wave and Ion Temperature Gradient turbulence interaction under modified fast ion scattering conditions in DIII-D Effect of energetic particle transport in burning plasma scenarios Impact of finite-orbit-width (FOW) effects on EGAM Mesoscopic transport in KSTAR. HL-3. and DIII-D tokamaks