

Session Program

2-5 Oct 2023



20th European Fusion Theory Conference 2-5 October 2023, Padova - Italy

Poster session: 01

Caffè Pedrocchi, Sala Rossini
Piazzetta Cappellato Pedrocchi, 17, Padova GPS: 45.4076321 N, 11.8772911 E

Tuesday 3 October

16:00

Poster session: 01: P1

Session |

Location: Caffè Pedrocchi, Sala Egizia, Piazzetta Cappellato Pedrocchi, 17, Padova GPS: 45.4076321 N, 11.8772911 E

16:00–16:04

New solution to Airy's equation for describing electromagnetic beams near turning points

Speaker

Nicolas Lopez

16:04–16:08

Towards Robust Numerical Solvers for Nuclear Fusion Simulations Using JOREK: A Numerical Analysis Perspective

Speaker

Vandana Dwarka

16:08–16:12

Advanced modelling of heavy impurity tokamak transport in rotating 3D magnetic fields

Speaker

Joachim Jacques Koerfer

16:12–16:16

Linear and nolinear analysis of magnetic reconnection driven by a runaway current

Speaker

daniela grasso

16:20–16:24

Simulation of electromagnetic effects in boundary turbulence with the GBS code

Speaker

Brenno Jason Sanzio Peter De Lucca

16:24–16:28

Piecewise field-aligned finite element method in particle simulations

Speaker

Lu Zhixin

16:28–16:32

The role of plasma flow on quasi-helical states in reversed-field pinches

Speaker

Dr Marco Veranda

16:32–16:36

First Attempt to Describe Ponderomotive Effects in front of an ICRH launcher using HFSS

Speaker

Vincent Maquet

16:36-16:40

Toward the implementation of the full-f nonlinear Coulomb collision operator with the gyromoment approach**Speaker**

Samuel Ernst

16:40-16:44

Pitch Angle Averaged Quasi-Linear Operator for ICRH**Speaker**

Lukas Böhner

16:44-16:48

Neural Network for Magnetohydrodynamic Simulations**Speaker**

Yen Chen Chen

16:48-16:52

Magnetic Structure of Turbulence-Driven Magnetic Islands**Speaker**

Nicolas DUBUIT

16:52-16:56

Analysis of Impurity Clustering in the Edge Plasma of Tokamaks**Speaker**

Zetao Lin

16:56-17:00

Characterization of L-H transition density branches in JET D-T plasmas through a power balance analysis**Speaker**

Pietro Vincenzi

17:04-17:08

Parametric Decay Instabilities in Electron Cyclotron Wall Conditioning: Comparison Between Models and Experiments**Speaker**

Riccardo Ragona

17:08-17:12

An efficient conservative solver for plasma transport equations in tokamaks**Speaker**

Dr Andrei Ludvig-Osipov

17:12-17:16

Optimal modes of gyrokinetic free energy growth with trapped electrons**Speaker**

Paul Costello

17:16-17:20

3D boundary flow impact in modelling free-boundary instabilities with resistive-shell-based boundary conditions in the nonlinear MHD code SPECYL**Speaker**

luca spinicci

17:20-17:24

Gyrokinetic Simulations of JET Pedestal Top Plasmas in Different Regimes

Speaker
Mattia DICORATO

17:24–17:28

Beam-tracing analysis of EC-assisted breakdown and high-frequency core heating in various DEMO scenarios

Speaker
Prof. Christos Tsironis

17:28–17:32

Viscosity profile studies in 3D non-linear MHD modeling of RFP fusion plasmas

Speaker
Nicholas Vivenzi

17:32–17:36

ReMKIT1D - A novel framework for building 1D reactive multi-fluid models of the Scrape-Off Layer with kinetic electrons

Speaker
Stefan Mijin

17:36–17:40

Hybrid kinetic-MHD simulations of the fishbone instability with JOREK

Speaker
Felix Antlitz

17:40–17:44

Alfvénic instability and critical balance in ion-scale electromagnetic turbulence driven by electron temperature gradient

Speaker
Will Clarke

17:44–17:48

Towards electromagnetic simulations with the gyrokinetic full-f code PICLS

Speaker
Annika Stier

17:48–17:52

NBI energetic particle confinement and orbit characterization for Divertor Tokamak Test plasma scenarios

Speaker
Chiara De Piccoli

17:52–17:56

Nonlocal transport theory in relativistic plasmas

Speaker
Karima Bendib-Kalache

17:56–18:00

Quantification and Comparison of Magnetic and Kinetic Chaos in Toroidal Plasmas

Speaker
Prof. Yannis Kominis

18:00