Session Program

Oct 2 – 5, 2023

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

Poster session: 02

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

Wed, October 4

4:00 PM

Poster session: 02: P2

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

4:00 – 4:04 PM

Application of three-ion ICRF scenarios for optimizing ion heating in the ramp-up phase in future tokamaks

Speaker
Yevgen Kazakov

4:04 – 4:08 PM

Electron temperature effects on plasmoids and Kelvin-Helmholtz vortices in collisionless turbulent plasmas

Speaker
DARIO BORGOGNO

4:08 – 4:12 PM

Modulational instability in isolated dynamics of Geodesic-Acoustic-Mode packets

Speaker
David Korger

4:16 – 4:20 PM

SOLPS-ITER modelling of plasma rotation with co-rotating atoms in the Magnum-PSI beam

Speaker
Hugo de Blank

4:20 – 4:24 PM

Breakdown time estimation for EC-assisted start-up in tokamaks

Speaker
Dr Christos Tsironis

4:24 – 4:28 PM

Quasi-isodynamic stellarator optimisation for several periodicities

Speaker
Guillermo Luis Godino-Sedano

4:28 – 4:32 PM

Fast evaluation of the bootstrap current in stellarators

Speaker
Francisco Javier Escoto Lopez

4:32 – 4:36 PM

Finding Stable Quasi-Isodynamic Designs (SQuIDs) for Stellarators

Speaker
Alan Goodman

4:36 – 4:40 PM

RF-NBI schemes for fast-ion generation in the next operation phases of Wendelstein 7-X

Speaker
Christoph Slaby

4:40 – 4:44 PM
Enrichment of impurities seeded for exhaust control in spherical tokamak power plant geometry

Speaker
Sarah Newton

4:44 – 4:48 PM
Preliminary assessment of deterministic kinetic modeling for neutral particles in the JET sub-divertor

Speaker
Dr Serafeim Misdanitis

4:48 – 4:52 PM
Investigation of the Various Damping Channels of TAEs applied to Spherical Tokamaks

Speaker
Noah Chulu Chinn

4:52 – 4:56 PM **Integral dielectric kernels for Maxwellian tokamak plasmas**

Speaker
Dr Philippe Lamalle

4:56 – 5:00 PM **Kinetic Analysis of the collisional layer**

Speaker
Mantas Abazorius

5:00 – 5:04 PM
Simulation of fully global electromagnetic turbulence in the stellarator W7-X

Speaker
Yann Narbutt

5:04 – 5:08 PM
Plasma edge simulations using Sparselizard C++ finite element library

Speaker
Alexandre Halbach

5:08 – 5:12 PM **E×B drift physics on open field lines in a drift-kinetic model**

Speaker
Michael Richard Hardman

5:12 – 5:16 PM **Demonstration of moment-kinetics approach for edge modelling**

Speaker
John Omotani

5:16 – 5:20 PM **Robust stellarator optimization via flat mirror magnetic fields**

Speaker
José Luis Velasco

5:20 – 5:24 PM **Description of magnetic field lines without arcana**

Speaker
Barbara Momo

5:24 – 5:28 PM
Reconnection processes in 3D MHD modeling of Reversed Field Pinch magnetic self-organization

Speaker
Susanna Cappello

5:28 – 5:32 PM
Importance of Parallel Dispersion in ICRF Modelling of Travelling Wave Antenna Concept in DEMO-Like Plasmas in 2D Axisymmetry

Speaker
Björn Zaar

5:32 – 5:36 PM **Modelling Intrinsic Rotation Reversals in JET Plasmas**

Speaker
Maria Filomena Ferreira Nave

5:36 – 5:40 PM
Turbulence driven magnetic islands in high-β plasmas: generation and non-linear dynamics

Speaker
Dr Nicolas Dubuit

5:40 – 5:44 PM
Implementation of an analytical Jacobian in the MEQ free-boundary tokamak equilibrium code suite

Speaker
Antoine Pierre Emmanuel Alexis Merle

5:44 – 5:48 PM
A solver for energetic particles transport in constants of motion space with collision and phase space zonal structures in tokamak plasmas

Speaker
Guo Meng

5:48 – 5:52 PM
Linear equations for stellarator local MHD equilibria around irrational and rational flux surfaces

Speaker
Felix Parra

5:52 – 5:56 PM
Maximum-J properties for finite-β collisionless microinstabilities in general geometry

Speaker
alessandro zocco

5:56 – 6:00 PM
Effects of the nonlinear inverse bremsstrahlung absorption on the dispersion and damping of electron plasma waves

6:00 PM

Speaker
Dr Boumediene TOUIL