

Multi-scale Energetic particle Transport in fusion devices jointly organized with the "Final MET Workshop"

CNPS workshop on



3-5 March 2021
ZOOM videoconference
by remote participation

Report of Contributions

Contribution ID: 1

Type: **not specified**

Opening

Wednesday, 3 March 2021 08:55 (5 minutes)

Presenter: ZONCA, Fulvio

Contribution ID: 2

Type: **not specified**

Construction of energetic particle fluxes due to Alfvénic fluctuations from parallel mode structures

Wednesday, 3 March 2021 09:00 (35 minutes)

Presenter: FALESSI, matteo Valerio (ENEA C.R. Frascati - ENEA for EUROfusion)

Contribution ID: 3

Type: **not specified**

DAEPS calculation of low frequency kinetic continuous spectrum

Wednesday, 3 March 2021 09:35 (35 minutes)

Presenter: LI, Yueyan

Contribution ID: 4

Type: **not specified**

Flux surface averaged expressions of energetic particle fluxes for global transport studies of phase space zonal structures in tokamaks

Wednesday, 3 March 2021 10:10 (35 minutes)

Presenter: ZONCA, Fulvio (ENEA C.R. Frascati)

Contribution ID: 5

Type: **not specified**

Energetic particle transport in stellarators: theoretical foundations

Wednesday, 3 March 2021 11:15 (35 minutes)

Presenter: ZOCCO, Alessandro (MPIPP Greifswald)

Contribution ID: 6

Type: **not specified**

Gyrokinetic investigation of the nonlinear interaction of Alfvén instabilities and energetic-particle driven geodesic acoustic modes

Wednesday, 3 March 2021 11:50 (35 minutes)

Presenter: VANNINI, Francesco (Max Planck Institute for Plasma Physics)

Contribution ID: 7

Type: **not specified**

Isotope effects on the Energetic Particle dynamics induced by off-axis neutral beam injection on ASDEX Upgrade

Thursday, 4 March 2021 09:00 (35 minutes)

Presenter: LAUBER, Philipp (IPP)

Contribution ID: 8

Type: **not specified**

Modeling of alpha particle transport and losses in the presence of magnetic islands

Thursday, 4 March 2021 09:35 (35 minutes)

Presenter: ZARZOSO, David (CNRS)

Contribution ID: 9

Type: **not specified**

Implicit full f particle simulations of Alfvén waves and energetic particle physics

Thursday, 4 March 2021 10:10 (35 minutes)

Presenter: LU, Zhixin (Max-Planck Institute of Plasma Physics)

Contribution ID: **10**

Type: **not specified**

Interaction of alpha particles with Alfvén modes in ITER 15MA case

Thursday, 4 March 2021 11:15 (35 minutes)

Presenter: MENG, Guo

Contribution ID: **11**

Type: **not specified**

Simulation Energetic particle transport and 1D reduced model

Thursday, 4 March 2021 11:50 (35 minutes)

Presenter: CARLEVARO, Nakia (ENEA, Fusion and Nuclear Safety Department, C. R. Frascati, Via E. Fermi 45, 00044 Frascati (Roma), Italy)

Contribution ID: 12

Type: **not specified**

Electromagnetic simulations with EUTERPE in tokamak geometry and for W7-X

Friday, 5 March 2021 09:00 (35 minutes)

Presenter: KÖNIES, Axel (Max-Planck-Institute for Plasma Physics (IPP))

Contribution ID: 13

Type: **not specified**

Gyrokinetic simulations of electromagnetic turbulence with global particle-in-cell codes

Friday, 5 March 2021 09:35 (35 minutes)

Presenter: MISHCHENKO, Oleksiy (Max Planck Institute for Plasma Physics)

Contribution ID: 14

Type: **not specified**

Global gyrokinetic modelling of AEs in ITER & progress towards realistic distribution functions

Friday, 5 March 2021 10:10 (35 minutes)

Presenter: HAYWARD-SCHNEIDER, Thomas (Max Planck Institute for Plasma Physics)

Contribution ID: 15

Type: **not specified**

Nonlinear dynamics of frequency chirping energetic particle modes

Friday, 5 March 2021 11:15 (35 minutes)

Presenter: WANG, Xin

Contribution ID: 16

Type: **not specified**

Preliminary studies of Energetic Particle driven Alfvénic modes for a model DTT equilibrium using HYMAGYC

Friday, 5 March 2021 11:50 (35 minutes)

Presenter: VLAD, Gregorio (ENEA-FSN-FUSPHY-TSM)

Contribution ID: 17

Type: **not specified**

Concluding remarks on MET Project – Closing

Friday, 5 March 2021 12:25 (15 minutes)

Presenter: ZONCA, Fulvio (ENEA C.R. Frascati)