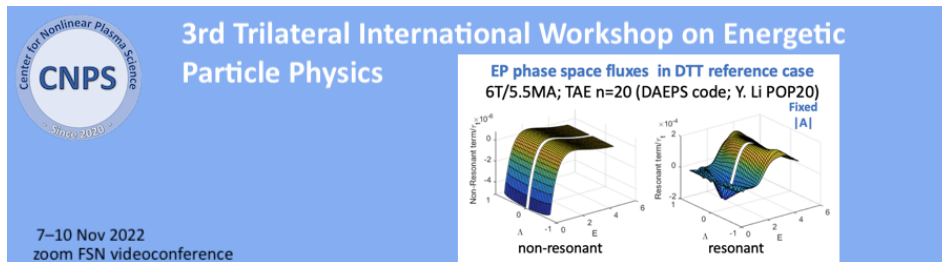


Organized by the Center for Nonlinear Plasma Science



Report of Contributions

Contribution ID: 1

Type: **not specified**

Overview of KSTAR experiments on EP and diagnostics status

Monday, 7 November 2022 08:00 (30 minutes)

Talk 1

Presenter: KIM, Junghee (Korea Institute of Fusion Energy)

Session Classification: Day 1 - Session 1

Contribution ID: 2

Type: **not specified**

Simulations of fishbone and EPM in the EAST tokamak

Monday, 7 November 2022 08:30 (30 minutes)

Talk 2

Presenter: SHEN, Wei (ASIPP)

Session Classification: Day 1 - Session 1

Contribution ID: 3

Type: **not specified**

Investigation on chirping-mode dynamics

Monday, 7 November 2022 09:00 (30 minutes)

Talk 3

Presenter: BRIGUGLIO, Sergio (ENEA)

Session Classification: Day 1 - Session 1

Contribution ID: 4

Type: **not specified**

Entropy calculations in the nonlinear wave-particle interactions of Berk-Breizman model

Monday, 7 November 2022 09:40 (30 minutes)

Talk 4

Presenter: LEE, Jungpyo (Hanyang University, Seoul, South Korea)

Session Classification: Day 1 - Session 2

Contribution ID: 5

Type: **not specified**

The Chinese Magnetic Fusion Program

Monday, 7 November 2022 10:10 (40 minutes)

Talk 5

Presenter: WAN, Baonian (ASIPP)

Session Classification: Day 1 - Session 2

Contribution ID: 6

Type: **not specified**

CLT-K hybrid simulations of EP interaction with tearing modes

Tuesday, 8 November 2022 08:00 (30 minutes)

Talk 1

Presenter: MA, Zhiwei (IFTS)

Session Classification: Day 2 - Session 1

Contribution ID: 7

Type: **not specified**

Global Alfvénic modes excitation in Ohmic Tokamak plasmas following magnetic reconnection events

Tuesday, 8 November 2022 08:30 (30 minutes)

Talk 2

Presenter: KRYZHANOVSKYY, Artur (Consorzio RFX and CRF – University of Padova, Italy)

Session Classification: Day 2 - Session 1

Contribution ID: 8

Type: **not specified**

Simulations of EP transport in rotating RMPs

Tuesday, 8 November 2022 09:00 (30 minutes)

Talk 3

Presenter: RHEE, Tongnyeol (Korea Institute of Fusion Energy, Rep. of Korea)

Session Classification: Day 2 - Session 1

Contribution ID: 9

Type: **not specified**

Energetic particle nonlinear equilibria and transport processes in burning plasmas

Tuesday, 8 November 2022 09:40 (30 minutes)

Talk 4

Presenter: FALESSI, matteo Valerio (Center for Nonlinear Plasma Science and C.R. ENEA Frascati, Frascati, Italy)

Session Classification: Day 2 - Session 2

Contribution ID: **10**

Type: **not specified**

Gyrokinetic study of co-existing Alfvén Eigenmode and microturbulence in KSTAR

Tuesday, 8 November 2022 10:10 (30 minutes)

Talk 5

Presenter: CHOI, Gyungjin (Seoul National University)

Session Classification: Day 2 - Session 2

Contribution ID: 11

Type: **not specified**

On nonlinear scatterings between drift waves and Toroidal Alfvén eigenmodes

Wednesday, 9 November 2022 08:00 (30 minutes)

Talk 1

Presenter: CHEN, Liu

Session Classification: Day 3 - Session 1

Contribution ID: 12

Type: **not specified**

Interplay of KSTAR high β_N mission and fast-ion transport

Wednesday, 9 November 2022 08:30 (30 minutes)

Talk 2

Presenter: KANG, Jisung (KFE)

Session Classification: Day 3 - Session 1

Contribution ID: 13

Type: **not specified**

Linear and non-linear benchmark between HYMAGYC, MEGA and ORB5 codes using the NLED-AUG test case to study Alfvénic modes driven by energetic particles

Wednesday, 9 November 2022 09:00 (30 minutes)

Talk 3

Presenter: VLAD, Gregorio (ENEA-FSN-PLAS-TSV)

Session Classification: Day 3 - Session 1

Contribution ID: 14

Type: **not specified**

Theoretical studies of low-frequency Alfvén waves in tokamak plasmas

Wednesday, 9 November 2022 09:40 (30 minutes)

Talk 4

Presenter: MA, Ruirui (South Western Institute of Physics, Chengdu)

Session Classification: Day 3 - Session 2

Contribution ID: 15

Type: **not specified**

Progress in Physical mechanisms behind enhanced confinement regimes of tokamak plasmas

Wednesday, 9 November 2022 10:10 (40 minutes)

Talk 5

Presenter: HAHM, Taik Soo (Seoul National University)

Session Classification: Day 3 - Session 2

Contribution ID: 16

Type: **not specified**

Onset and evolution of EP driven instabilities in KSTAR

Thursday, 10 November 2022 08:00 (30 minutes)

Talk 1

Presenter: JHANG, Hogun (Korea Institute of Fusion Energy, Rep. of Korea)

Session Classification: Day 4 - Session 1

Contribution ID: 17

Type: **not specified**

Simulations of beam-driven modes in KSTAR

Thursday, 10 November 2022 08:30 (30 minutes)

Talk 2

Presenter: ZHANG, LuLu (IFTS)

Session Classification: Day 4 - Session 1

Contribution ID: **18**

Type: **not specified**

Advanced energetic particle transport models

Thursday, 10 November 2022 09:00 (30 minutes)

Talk 3

Presenter: LAUBER, Philipp (IPP)

Session Classification: Day 4 - Session 1

Contribution ID: 19

Type: **not specified**

Core localized alpha-channeling via low frequency Alfvén mode generation in reversed shear scenarios

Thursday, 10 November 2022 09:40 (30 minutes)

Talk 4

Presenter: QIU, Zhiyong (IFTS, Zhejiang University)

Session Classification: Day 4 - Session 2

Contribution ID: 20

Type: **not specified**

Linear and nonlinear KAW physics in cylindrical plasmas

Thursday, 10 November 2022 10:10 (30 minutes)

Talk 5

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

Session Classification: Day 4 - Session 2

Contribution ID: **21**

Type: **not specified**

Final Discussion

Thursday, 10 November 2022 11:00 (55 minutes)

Final Discussion

Session Classification: Final Discussion and Closing

Contribution ID: 22

Type: **not specified**

Closing

Thursday, 10 November 2022 11:55 (5 minutes)

Closing

Session Classification: Final Discussion and Closing

Contribution ID: 23

Type: **not specified**

Physics basis and research plan of the Divertor Tokamak Test facility

Tuesday, 8 November 2022 10:40 (40 minutes)

Talk - 6

Presenter: CRISANTI, Flavio (University of Tuscia and DTT)

Session Classification: Day 2 - Session 2