

3rd Meeting of the ITPA Energetic Particle Physics Topical Group, Kiev, Ukraine

September 24-25, 2009

September 24 (Thursday)

9:00 Starting Session

- | | |
|--|-------------------------|
| Welcome Address, logistics | <i>Y. Kolesnichenko</i> |
| 9:10 Opening Remarks | <i>S. Günter</i> |
| 9:20 Reference ITER data base for EP modelling | <i>S. Putvinski</i> |
| 9:50 Discussion on data base needs for EP | |

(Coffee Break) 10:30 – 11:00

11:00 TAE benchmarks (Chair: S. Pinches)

- | | |
|---|------------------|
| 11:00 TAE-damping rate comparison exercise | <i>T. Panis</i> |
| 11:30 Linear benchmark case – results of the LIGKA code | <i>P. Lauber</i> |
| 12:00 Benchmark results of the MEGA code | <i>Y. Todo</i> |

(Lunch Break) 12:30 – 13:30

13:30 TAE benchmarks (contd.)

- | | |
|--|---------------------|
| 13:30 TAE stability benchmark studies with TAEFL and AE3D models | <i>D. Spong</i> |
| 14:00 Nonlinear TAE test case: results of HMGC simulations | <i>S. Briguglio</i> |
| 14:30 Benchmark results from GYGLES and CAS3D-K | <i>A. Könies</i> |

(Coffee Break) 15:00 – 15:30

15:30 (Chair: Y. Todo)

- | | |
|--|----------------------|
| 15:30 Discussion on further plans for the TAE benchmark exercises | |
| 17:00 Modeling of the fast ion-small scale turbulence interaction | <i>M. Albergante</i> |
| 17:30 The destabilizing effect of dynamical friction on fast particle driven waves | <i>B. Breizmann</i> |
| 18:00 Fusion alpha influence on plasma equilibrium in ITER | <i>V. Yavorskij</i> |

September 25 (Friday)

8:30 Fast ion losses induced by 3d effects (Chair: K. Shinohara)

8:30 Comparison of the fractional losses of slowing-down fusion alphas in the presence and absence of AE activity

T. Kurki-Suonio

9:00 Comments on drift and gyro orbits in TBM field

K. Hamamatsu

9:15 Discussion: Further work on 3d losses

(Coffee Break) 10:00 – 10:30

10:30 TAE Experiments (Chair: R. Nazikian)

10:30 How to compare measured fast-ion profiles with predicted fast-ion transport

W. Heidbrink

11:00 Fast-ion transport in our DIII-D plasmas with lots of RSAEs and TAEs

Gorelenkov/Heidbrink

11:30 An Event of Confinement Improvement of Bulk Plasma by TAE-Induced Energetic Ion Loss in LHD

K. Toi

11:30 Plans for joint experiments (Chair: W. Heidbrink)

11:30 Proposals for joint experiments

S. Pinches

12:00 Discussion

(Lunch Break) 12:30 – 13:30

13:30 Continued discussion on joint experiments

14:30 Concluding session (chair: S. Günter)

Discussion on next meeting, work to be done and planned publications of the EP group during 2010