
23rd ITPA Topical Group on Energetic Particles Meeting

9 - 11 September 2019

Naka Fusion Institute, National Institutes for Quantum and Radiological Science and Technology

Naka, Japan

Reference Documents

| Ref. | Document |
|---|--|
| 23rd ITPA EP Meeting | Meeting web site |
| Joint Modelling | Shared information on joint modelling activities |
| Joint Experiments | Shared information on joint experiments |

Remote participation instructions => next page

Remote Participation Details:

SUMMARY for Channel 5 / 09Sep2019: ITPA EP TG:

Presentation: <https://tv.euro-fusion.org/channel5/home>

Presentation Password: show

Video-conference nr. (H.323): 004910097920065

ISDN: +49-30-20097920065 (ConferenceID = 97920065)

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VIDEOCONFERENCE DETAILS

If using a H.323 video-conference device, registered to an E.164 compliant gatekeeper, call the E.164 number:

004910097920065

If using a H.323 video-conference device NOT registered to an E.164 compliant gatekeeper (called URI dial), the syntax depends on your vendor as shown below:

ConferenceID = 97920065

LifeSize: 194.95.240.2##ConferenceID

Mirial: ConferenceID@mcu.vc.dfn.de

Polycom: mcu.vc.dfn.de##ConferenceID

Sony: 194.95.240.2#ConferenceID

Tandberg: ConferenceID@mcu.vc.dfn.de

Cisco: ConferenceID@vc.dfn.de

VCON: n.a.

Further technical details and help can be found here

<http://vcc.zih.tu-dresden.de/index.php?linkid=11100>

and here

<https://www.vc.dfn.de/en/video-conferencing/ways-of-access/h323.html>

For ISDN VC systems and phones please use the DFNVC - ISDN/IP gateway as follows:

Dial with any phone the German telephone numbers:

+49-30-20097920065

Pressing *6 mutes your phone. Pressing *6 again unmutes your phone.

Monday, 9 September 2019

Morning Session Chair: Don Spong

Afternoon Session Chair: Mirko Salewski

| Time | | Presenter |
|-------|--|--|
| 09:30 | Opening Remarks, Announcements | Don Spong, Kouji Shinohara |
| 09:45 | Update on ITER and high priority R&D needs in the area of EP physics | Simon Pinches |
| | Topic: Joint EP experiments | |
| 10:15 | EP-6: Fast-Ion Losses and Associated Heat Load from Edge Perturbations (ELMs and RMPs) | Manuel Garcia-Munoz |
| 10:35 | Break | |
| 11:00 | EP-8: NB Current drive and projections to ITER | Mario Podesta |
| 11:20 | EP-11: Velocity-space tomography based on combined diagnostics | Mirko Salewski |
| 11:40 | Lunch | |
| 13:30 | Group photo | |
| | Topic: JT-60SA | |
| 14:00 | JT-60SA project toward its first plasma | Yutaka Kamada, Deputy Director General, Naka Fusion Institute |
| | Topic: Joint EP experiments | |
| 14:45 | EP-9 status report: ICE Joint Experiments | Bill Heidbrink |
| 15:05 | EP-12: Identification of AE control actuators and preliminary assessment for ITER | Alvaro Kappa |
| 15:25 | Break | |
| 16:00 | Progress with advanced ICRF schemes in support of ITER operations on AUG and JET | Yevgen Kazakov |
| 16:20 | Towards the controlled generation of fusion products in D-3He plasmas with the 3 ion ICRH scheme: a first impression from recent JET experiments | Massimo Nocente |
| 16:40 | Discussion | |
| 17:00 | Close – leave for Banquet | |

Tuesday, 10 September 2019

Morning Session Chair: Simon Pinches

Afternoon Session Chair: Kouji Shinohara

| Time | Topic: Energetic Particle Transport and Equilibrium Effects | Presenter |
|-------|---|--------------------------|
| 09:15 | First-principle formulation of resonance broadened quasilinear theory near an instability threshold (remote presentation) | Vinicius Duarte |
| 09:40 | Progress in the study of anisotropic plasma scenarios in ITER | Matthew Hole |
| 10:00 | Break | |
| 10:30 | Addressing TAEs in ITER: Global kinetic EM simulations | Thomas Hayward |
| 10:50 | Hybrid simulations of ion-driven fishbones with the XTOR-K code | Remi Dumont, G. Brochard |
| 11:10 | Effect of 3D magnetic field on Alfvénic activity in KSTAR | Kimin Kim |
| 11:40 | Lunch and JT-60SA tour (20 attendees per day) | |
| | Topic: Energetic Particle Confinement | |
| 14:00 | Update on joint modeling of transport in the presence of 3D perturbations and recent ASCOT news | Antti Snicker |
| 14:20 | Studying fast ion transport in 3D fields using the LOCUST-GPU code | Samuel Ward |
| | Topic: Energetic Particle Instabilities | |
| 14:40 | Development and application of AWEAC and NIMROD for tokamak AE study in China | Yawei Hou |
| 15:00 | Break | |
| 15:30 | Nonlinear trapping in bounce-transit and drift resonance in tokamaks | Kerchung Shaing |
| 15:50 | Recent BAAE/BAE studies and nonlinear simulation of RSAE/TAEs | Don Spong |
| 16:10 | Update on the ITPA-BAAE case (remote presentation) | Philipp Lauber |
| 16:40 | Discussion | |
| 17:00 | Close | |

Wednesday, 11 September 2019

Session Chair: Don Spong

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|-------|--|-------------|
| | Topic: Experimental observations of Energetic Particle Instabilities | |
| 9:15 | Experimental investigation of Alfvén Eigenmodes during off-axis sawteeth oscillation in EAST tokamak | Ming Xu |
| 9:35 | Alfvén instabilities in the TJ-II experiment | A. Melnikov |
| 9:55 | Break | |
| 10:25 | Discussion: <ul style="list-style-type: none">- Theory and modelling priorities- Joint modelling issues- Joint experiments Joint EP review paper | All |
| 11:30 | Lunch and JT-60SA tour (20 attendees per day) | |
| 14:00 | Decisions and Actions Next ITPA-EP Meetings and other business | |
| 14:30 | Close of meeting | |