# Agenda for 2016 Joint ICTP/CAS/IAEA School and Workshop on Plasma-Material Interaction in Fusion Devices

**Venue:** Building No. 4, ASIPP. Lecture/Oral/Training: Meeting Room 601; Poster: 6th Floor Middle Meeting Room (from Tuesday on)

## Session L1
**Lecturer:** Niels Gierse

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30</td>
<td>Opening by Dr. Wan (Director of ASIPP) and Dr. Braams (Chaired by Dr. Luo)</td>
</tr>
<tr>
<td>9:00</td>
<td>Lecture 1: Plasma surface interactions</td>
</tr>
<tr>
<td>10:20</td>
<td>Lecture 2: Plasma-facing materials</td>
</tr>
</tbody>
</table>

## Session L2
**Lecturer:** Guang-Nan Luo

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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</thead>
<tbody>
<tr>
<td>13:30</td>
<td>Lecture 3: Plasma-facing components</td>
</tr>
<tr>
<td>15:00</td>
<td>Coffee break</td>
</tr>
</tbody>
</table>

## Session L3
**Lecturer:** Jörg Neugebauer

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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</thead>
<tbody>
<tr>
<td>9:00</td>
<td>Lecture 4: Ab initio description of defects in materials under extreme conditions (1)</td>
</tr>
<tr>
<td>10:40</td>
<td>Coffee break</td>
</tr>
</tbody>
</table>

## Session L4
**Lecturer:** Fei Gao and B. D. Wirth

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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</thead>
<tbody>
<tr>
<td>8:30</td>
<td>Lecture 6: Molecular dynamics simulations of fusion materials: challenges and opportunities (1)</td>
</tr>
<tr>
<td>10:20</td>
<td>Lecture 5: Ab initio description of defects in materials under extreme conditions (2)</td>
</tr>
</tbody>
</table>

## Session L5
**Lecturer:** B. D. Wirth and Fei Gao

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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</thead>
<tbody>
<tr>
<td>8:30</td>
<td>Lecture 8: Molecular dynamics simulations of fusion materials: challenges and opportunities (1)</td>
</tr>
</tbody>
</table>

## Session L6
**Lecturer:** Guang-Hong Lu

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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</thead>
<tbody>
<tr>
<td>8:30</td>
<td>Lecture 10: Introduction to first-principles method</td>
</tr>
</tbody>
</table>

## Session O1: Experiments
**Chair:** Niels Gierse

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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</thead>
<tbody>
<tr>
<td>15:00</td>
<td>Coffee break</td>
</tr>
</tbody>
</table>

## Session O2: Tungsten (1)
**Chair:** Jörg Neugebauer

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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</thead>
<tbody>
<tr>
<td>13:30</td>
<td>Lecture 1: I2 (Chang-Song Liu)</td>
</tr>
<tr>
<td>15:00</td>
<td>Lecture 1: O06 (XianShan Kong)</td>
</tr>
<tr>
<td>16:00</td>
<td>Lecture 1: O07 (Li-Fang Wang)</td>
</tr>
<tr>
<td>17:00</td>
<td>Lecture 1: O09 (Jiechu Cui)</td>
</tr>
</tbody>
</table>

## Session O3: Tungsten (2)
**Chair:** Fei Gao

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>13:30</td>
<td>Lecture 1: O11 (Yu-Wei You)</td>
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<tr>
<td>15:00</td>
<td>Lecture 1: O12 (Jingzhong Fang)</td>
</tr>
<tr>
<td>16:00</td>
<td>Lecture 1: O13 (Zhangcan Yang)</td>
</tr>
<tr>
<td>17:00</td>
<td>Lecture 1: O14 (Haohua Wen)</td>
</tr>
</tbody>
</table>

## Session O4: Iron
**Chair:** B. D. Wirth

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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</thead>
<tbody>
<tr>
<td>13:30</td>
<td>Lecture 1: O15 (Jingyi Shi)</td>
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<tr>
<td>15:00</td>
<td>Lecture 1: O16 (Tao Lu)</td>
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<tr>
<td>16:00</td>
<td>Lecture 1: O17 (Jianhua Ding)</td>
</tr>
<tr>
<td>17:00</td>
<td>Lecture 1: O18 (Yang Zhan)</td>
</tr>
</tbody>
</table>

## Session O5: Damages
**Chair:** Guang-Hong Lu

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>13:30</td>
<td>Lecture 1: O19 (Amal Sharma)</td>
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<tr>
<td>15:00</td>
<td>Lecture 1: O20 (Baoqin Fu)</td>
</tr>
<tr>
<td>16:00</td>
<td>Lecture 1: O21 (Yuexi Wang)</td>
</tr>
</tbody>
</table>

## Session O6: Training Courses
**Lecturer:** B. D. Wirth and Fei Gao

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>14:50</td>
<td>Lecture 1: Training on Xolotl by Prof. B. D. Wirth</td>
</tr>
<tr>
<td>16:30</td>
<td>Lecture 1: Training on LAMMPS by Prof. Fei Gao</td>
</tr>
</tbody>
</table>

## Session O7: Poster session
**Chair:** Guang-Nan Luo

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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</thead>
<tbody>
<tr>
<td>14:50</td>
<td>Poster session - 6th Floor Middle Meeting Room (starting from Tuesday)</td>
</tr>
</tbody>
</table>

## Session R: Review and Closing
**Chair:** Guang-Nan Luo

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>15:00</td>
<td>Discussion chaired by Bastiaan J.Braams</td>
</tr>
<tr>
<td>16:00</td>
<td>Summary by Guang-Nan Luo &amp; Closing by Bastiaan J.Braams</td>
</tr>
</tbody>
</table>

### Additional Information
- **8:30-9:00:** Opening by Dr. Wan (Director of ASIPP) and Dr. Braams (Chaired by Dr. Luo)
- **12:00-13:30 Lunch**
- **18:00:** Shuttle bus to hotel
- **20:00:** Shuttle bus to hotel

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**Monday July 18th**

**Tuesday July 19th**

**Wednesday July 20th**

**Thursday July 21st**

**Friday July 22nd**
**Sunday July 17th, 2016 / Arrival**
14:00-18:00   Registration (lobby of BEST WESTERN PREMIER Hotel Hefei)

**Monday July 18th, 2016 / Session day 1st**
7:40   Shuttle bus to ASIPP (main gate of BEST WESTERN PREMIER Hotel Hefei)
8:00-8:30   Registration (entrance of meeting room 601)

Opening session – Chairman: Guang-Nan Luo (Institute of Plasma Physics, Chinese Academy of Sciences)
8:30-9:00   Welcome by Dr. Baonian Wan (Director of ASIPP) and Dr. Bastiaan J.Braams (IAEA)

**Session L1 – Lecturer: Niels Gierse (Forschungszentrum Jülich)**
9:00-10:20   Lecture 1   Plasma surface interactions
10:20-10:40   Photograph taking & Coffee break
10:40-12:00   Lecture 2   Plasma-facing materials
12:00-13:30   Lunch

**Session L2 – Lecturer: Guang-Nan Luo (Institute of Plasma Physics, Chinese Academy of Sciences)**
13:30-15:00   Lecture 3   Plasma-facing components
15:10-15:30   Coffee break

**Session O1: Experiments – Chairman: Niels Gierse (Forschungszentrum Jülich)**
15:30-15:55   I1 (Huiqiu Deng)   Hunan University   Molecular dynamics simulation of the wetting behaviors of liquid Li on W surface
15:55-16:10   O01 (Petter Ström)   KTH, Royal Institute of Technology   Ion beam methods for the study of plasma-facing materials
16:10-16:25   O02 (Yuping Xu)   Institute of Plasma Physics, Chinese Academy of Sciences   Plasma-Material Interaction experiments during the 2015 spring EAST campaign employing MAPES
16:25-16:40   O03 (Jun Wang)   Beihang University   Surface morphology and deuterium retention in tungsten vanadium alloys exposed to deuterium plasmas in linear plasma device STEP
16:40-16:55   O04 (Younggil Jin)   Seoul National University   TDS Study of Effect of High Energy Ion induced Cascade Collisional Damage on Deuterium Retention in Tungsten
16:55-17:10   O05 (Long Cheng)   Beihang University   Investigation of surface morphology and deuterium retention in tungsten exposed to neon and deuterium mixture plasmas in Pilot-PSI
17:30-20:00   Reception
20:00   Shuttle bus to the hotel (Main gate of Cafeteria of ASIPP)
<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>7:40</td>
<td>Shuttle bus to ASIPP (main gate of BEST WESTERN PREMIER Hotel Hefei)</td>
</tr>
<tr>
<td>8:30-10:00</td>
<td>Lecture 4</td>
</tr>
<tr>
<td>10:00-10:20</td>
<td>Coffee break</td>
</tr>
<tr>
<td>10:20-11:50</td>
<td>Lecture 5</td>
</tr>
<tr>
<td>12:00-13:30</td>
<td>Lunch</td>
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**Session L3 – Lecturer: Jörg Neugebauer (Max Planck Institute for Iron Research)**

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<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>13:30-13:55</td>
<td>I2 (Chang-Song Liu)</td>
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<tr>
<td>13:55-14:10</td>
<td>O06 (XianShan Kong)</td>
</tr>
<tr>
<td>14:10-14:25</td>
<td>O07 (Li-Fang Wang)</td>
</tr>
<tr>
<td>14:25-14:40</td>
<td>O08 (Yinan Wang)</td>
</tr>
<tr>
<td>14:40-14:55</td>
<td>O09 (Jiechao Cui)</td>
</tr>
<tr>
<td>14:55-15:10</td>
<td>O10 (Jie Hou)</td>
</tr>
<tr>
<td>15:10-15:30</td>
<td>Coffee break</td>
</tr>
<tr>
<td>15:30-18:00</td>
<td>Lab tour to ISSP and ASIPP</td>
</tr>
<tr>
<td>18:00</td>
<td>Shuttle bus to the hotel (Main gate of Building No. 4 in ASIPP)</td>
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</table>
**Wednesday July 20th, 2016 / Session day 3rd**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:40</td>
<td>Shuttle bus to ASIPP (main gate of BEST WESTERN PREMIER Hotel Hefei)</td>
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</tbody>
</table>

**Session L4 – Lecturer: Fei Gao (University of Michigan) and Brian D. Wirth (University of Tennessee)**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:30-10:00</td>
<td>Lecture 6 by Gao</td>
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<tr>
<td></td>
<td>Molecular dynamics simulations of fusion materials: challenges and opportunities (1)</td>
</tr>
<tr>
<td>10:00-10:20</td>
<td>Coffee break</td>
</tr>
<tr>
<td>10:20-11:50</td>
<td>Lecture 7 by Wirth</td>
</tr>
<tr>
<td></td>
<td>Introduction on Xolotl PSI code</td>
</tr>
<tr>
<td>12:00-13:30</td>
<td>Lunch</td>
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</tbody>
</table>

**Session O3: Tungsten (2) – Chairman: Fei Gao (University of Michigan)**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>13:30-13:45</td>
<td>O11 (Yu-Wei You) Institute of Solid State Physics, Chinese Academy of Sciences</td>
</tr>
<tr>
<td></td>
<td>Clustering of transmutation solutes Re, Os, and Ta and its influence on helium bubble formation in tungsten</td>
</tr>
<tr>
<td>13:45-14:00</td>
<td>O12 (Jingzhong Fang) Hunan University</td>
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<tr>
<td></td>
<td>Molecular dynamics simulations of the clustering and dislocation loop punching behaviors of noble gas atom in tungsten</td>
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<tr>
<td>14:00-14:15</td>
<td>O13 (Zhangcan Yang) University of Tennessee</td>
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<tr>
<td></td>
<td>Kinetic Monte Carlo Simulations of Helium Cluster Nucleation in Tungsten with Pre-Existing Vacancies</td>
</tr>
<tr>
<td>14:15-14:30</td>
<td>O14 (Haohua Wen) Sun Yat-Sen University</td>
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<tr>
<td></td>
<td>Interpretation of non-Arrhenius diffusion of helium in BCC Tungsten</td>
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<tr>
<td>14:30-14:50</td>
<td>Coffee break</td>
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**Session CT: Training Courses**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>14:50-16:20</td>
<td>Training on Xolotl by Prof. Wirth</td>
</tr>
<tr>
<td>16:30-18:00</td>
<td>Training on LAMMPS by Prof. Gao</td>
</tr>
<tr>
<td>18:00</td>
<td>Shuttle bus to the hotel (Main gate of Building No. 4 in ASIPP)</td>
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</tbody>
</table>
Thursday  July 21st, 2016 / Session day 4th

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>7:40</td>
<td>Shuttle bus to ASIPP (main gate of BEST WESTERN PREMIER Hotel Hefei)</td>
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<td></td>
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</tr>
<tr>
<td>8:30-10:00</td>
<td>Lecture 8 by Wirth</td>
</tr>
<tr>
<td>10:00-10:20</td>
<td>Coffee break</td>
</tr>
<tr>
<td>10:20-11:50</td>
<td>Lecture 9 by Gao</td>
</tr>
<tr>
<td>12:00-13:30</td>
<td>Lunch</td>
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</tbody>
</table>

**Session L5 – Lecturer: Brian D. Wirth (University of Tennessee) and Fei Gao (University of Michigan)**

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>13:30-13:45</td>
<td>O15 (Jingyi Shi)</td>
</tr>
<tr>
<td>13:45-14:00</td>
<td>O16 (Tao Lu)</td>
</tr>
<tr>
<td>14:00-14:15</td>
<td>O17 (Jianhua Ding)</td>
</tr>
<tr>
<td>14:15-14:30</td>
<td>O18 (Yang Cheng Zhang)</td>
</tr>
<tr>
<td>14:30-14:45</td>
<td>O19 (Amit Sharma)</td>
</tr>
<tr>
<td>14:45-15:05</td>
<td>Coffee break</td>
</tr>
</tbody>
</table>

**Session O4: Iron – Chairman: Brian D. Wirth (University of Tennessee)**

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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</thead>
<tbody>
<tr>
<td>15:05-18:00</td>
<td>6th Floor Middle Meeting Room, to be posted from Tuesday till Thursday</td>
</tr>
<tr>
<td>18:00</td>
<td>Shuttle bus to the hotel (Main gate of Building No. 4 in ASIPP)</td>
</tr>
</tbody>
</table>
## Session L6 – Lecturer: Guang-Hong Lu (Beihang University)

<table>
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<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:30-10:00</td>
<td>Lecture 10: Introduction to first-principles method</td>
</tr>
<tr>
<td>10:00-10:20</td>
<td>Coffee break</td>
</tr>
<tr>
<td>10:20-11:50</td>
<td>Lecture 11: Applications of first-principles method in studying fusion materials</td>
</tr>
<tr>
<td>12:00-13:30</td>
<td>Lunch</td>
</tr>
</tbody>
</table>

## Session O5: Damages – Chairman: Guang-Hong Lu (Beihang University)

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Institution</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:30-13:55</td>
<td>I3 (Jizhong Sun)</td>
<td>Dalian University of Technology</td>
<td>Deuterium bubble bursting in tungsten</td>
</tr>
<tr>
<td>13:55-14:10</td>
<td>O20 (Baoqin Fu)</td>
<td>Sichuan University</td>
<td>Molecular Dynamics Study of the Dislocation Effect on displacement cascade in Tungsten</td>
</tr>
<tr>
<td>14:10-14:25</td>
<td>O21 (Yuexia Wang)</td>
<td>Fudan University</td>
<td>Mechanical response of Ti3SiC2 to He/H irradiation: Elaboration from first-principles calculation</td>
</tr>
<tr>
<td>14:25-14:40</td>
<td>O22 (Xuebang Wu)</td>
<td>Institute of Solid State Physics, Chinese Academy of Sciences</td>
<td>Influence of alloying additions on grain boundary cohesion in tungsten: First-principles predictions and opportunities</td>
</tr>
<tr>
<td>14:40-14:55</td>
<td>O23 (Yonggang Li)</td>
<td>Institute of Solid State Physics, Chinese Academy of Sciences</td>
<td>Ion radiation albedo effect: influence of surface roughness on ion retention and sputtering of materials</td>
</tr>
<tr>
<td>14:55-15:20</td>
<td>Coffee break</td>
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## Session R: Review and Closing

<table>
<thead>
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<tbody>
<tr>
<td>15:20-16:20</td>
<td>Discussion chaired by Bastiaan J.Braams</td>
</tr>
<tr>
<td>16:20-16:50</td>
<td>Summary by Guang-Nan Luo &amp; Closing by Bastiaan J.Braams</td>
</tr>
<tr>
<td>17:00</td>
<td>Shuttle bus to the hotel (Main gate of Building No. 4 in ASIPP)</td>
</tr>
</tbody>
</table>

Saturday July 23rd, 2016 / Departure
### Poster Session
Size - height: 120 cm; width: 80 cm
Please bring your printed poster and post it on site at 6th Floor Middle Meeting Room (from Tuesday to Thursday).

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Institute</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>P02</td>
<td>Chengzhi Cao</td>
<td>Southwestern Institute of Physics</td>
<td>Modelling of HL-2M Standard Single Null Divertor by SOLPS-ITER</td>
</tr>
<tr>
<td>P03</td>
<td>Guohua Duan</td>
<td>Institute of Solid State Physics, Chinese Academy of Sciences</td>
<td>Energetic and kinetic role of free surface in healing irradiation-damage in nanoporous tungsten</td>
</tr>
<tr>
<td>P04</td>
<td>Jinming Gao</td>
<td>Southwestern Institute of Physics</td>
<td>Divertor heat flux mitigation by using supersonic molecular beam injection on the HL-2A tokamak</td>
</tr>
<tr>
<td>P05</td>
<td>Stanislav Herashchenko</td>
<td>National Science Center &quot;Kharkiv Institute of Physics and Technology&quot;</td>
<td>Damage of castellated tungsten targets under QSPA KH-50 plasma irradiation in experiments on simulation of ITER-like transient events</td>
</tr>
<tr>
<td>P06</td>
<td>Salah Ud-Din Khan</td>
<td>King Saud University</td>
<td>Theoretical Calculation and Simulation Studies for sideways force on vacuum vessel during VDEs in EAST Tokamak</td>
</tr>
<tr>
<td>P07</td>
<td>Shahab Ud-Din Khan</td>
<td>Institute of Plasma Physics, Chinese Academy of Sciences</td>
<td>Theoretical Calculation and Simulation Studies for asymmetric forces on the EAST plasma in kink mode and halo current analysis</td>
</tr>
<tr>
<td>P08</td>
<td>Xiaojie Li</td>
<td>Dalian University of Technology</td>
<td>Ab initio calculations of mechanical properties of bcc W-Re-Os random and RAFM alloys</td>
</tr>
<tr>
<td>P09</td>
<td>Guyue Pan</td>
<td>Institute of Solid State Physics, Chinese Academy of Sciences</td>
<td>The behavior of the hydrogen and helium under different orientation to W surface: A first principles study</td>
</tr>
<tr>
<td>P10</td>
<td>Ki-Baek Roh</td>
<td>Seoul National University</td>
<td>Recrystallization of bulk tungsten and plasma-sprayed tungsten with accumulated thermal energy relevant to Type-I ELM H-mode operation</td>
</tr>
<tr>
<td>P11</td>
<td>Siriyaporn Sangaroon</td>
<td>Mahasarakham University</td>
<td>A model for predicting tritium flux from blanket mock-up in Tokamak fusion reactors</td>
</tr>
<tr>
<td>P12</td>
<td>Dan Sun</td>
<td>Dalian University of Technology</td>
<td>Numerical simulation of plasma facing component with built-in tungsten filament on basis of join W/Cu functionally graded layer</td>
</tr>
<tr>
<td>P13</td>
<td>Jingjing Sun</td>
<td>Institute of Solid State Physics, Chinese Academy of Sciences</td>
<td>The diffusion and trapping properties of hydrogen in SiC: A first-principles study</td>
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<tr>
<td>P14</td>
<td>Carlos Eduardo Velasquez Cabrera</td>
<td>Universidade Federal de Minas Gerais</td>
<td>First wall dpa for plasma facing materials</td>
</tr>
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