



7th ADAMAS Workshop

Technische Universität Wien

Vienna, 13 – 14 December 2018

A G E N D A

Workshop venue: TU-Wien

Thursday, 13.12., 9:00 ⇒ Meeting Location ⇒ Karlsplatz 13, “Festsaal”, 1st floor

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| 9:00 | Registration | |
| 9:15 | Welcome | M. Kiš, L. Griesmayer |
| Session I ⇒ Applications (Dosimetry) | | <i>Chair: Matthias Schreck</i> |
| 9:30 | Overview and Status of the Austrian Particle Therapy Facility <i>MedAustron</i> | Peter Urschuetz (MedAustron) |
| 10:00 | History and Status | Erich Griesmayer (CIVIDEC) |
| 10:30 Coffee Break (30 min) | | |
| 11:00 | Advances in Diamond Based Microdosimeters | Michal Pomorski (CEA-LIST) |
| 11:30 | 3D Diamond Detectors for Small-field Dosimetry in Photon Beam Radiotherapy | Keida Kanxheri (INFN-Perugia) |
| 12:00 | Fast Diamond Detectors for Range Monitoring in Hadron Therapy | Sara Marcatili (CNRS/LPSC) |
| 12:30 Lunch (1 h 30 min) | | |
| Session II ⇒ Neutron detection | | <i>Chair: Michal Pomorski</i> |
| 14:00 | Neutron Spectroscopy with a Diamond Telescope Detector | Christina Weiss (CIVIDEC) |
| 14:30 | Challenges with Diamond Detectors at ITER | Vitaly Krasilnikov (ITER) |
| 15:00 | Single-Crystal CVD Diamond Detectors for Neutron Spectroscopy of d-d and d-t Fusion Reactions | Pavel Kavrigin (CIVIDEC) |
| 15:30 Coffee Break (30 min) | | |
| Session III ⇒ Growth and developments | | <i>Chair: Alexander Oh</i> |
| 16:00 | Recent Progress in Growth of Heteroepitaxial Diamond for Detector Applications | Matthias Schreck (Uni. Augsburg) |
| 16:30 | Ultra Large HPHT Diamonds: Technology, Quality Assessment and Applications | Dmitry Semchenko (NDT) |
| 17:00 | Use of NEUTON at the EPFL Zero Power Research Reactor CROCUS | Mathieu Hursin (EPFL) |
| 17:30 | High Temperature Alpha-Spectroscopy and Implications for Transactinide Chemistry | Benjamin Kraus (PSI) |
| 18:00 | Transfer to restaurant | |
| 19:00 Workshop Dinner ⇒ Heuriger “10er Marie”, Ottakringer Str. 222-224 | | |

Friday, 14.12., 9:00 ⇒ Meeting location ⇒ Gußhausstraße 27-29, Room EI11, 3rd fl.

| Session IV ⇒ 3D Detectors | | <i>Chair: Christina Weiss</i> | |
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| 9:00 | Recent Developments of 3D Diamond Detectors | Alexander Oh | (Univ. Manchester) |
| 9:30 | Rate Tests of CVD Diamond Pad Detectors | Michael Reichmann | (ETHZ) |
| 10:00 | Diamond Beam Loss Monitors at CERN accelerators | Jiri Kral | (CVUT/CERN) |
| 10:30 | Coffee Break (30 min) | | |
| Session V ⇒ Characterization | | <i>Chair: Erich Griesmayer</i> | |
| 11:00 | Diamond Edge-TCT | Christian Dorfer | (ETHZ) |
| 11:30 | Characterization of Single-Crystal Diamond Sensors for Radiation Monitoring in HEP Experiments | Luciano Bosisio | (INFN-Trieste) |
| 12:00 | Determination of Plasma Stopping Power by Time-of-Flight Measurements of Low-Energy Ion Bunches. A need for a fast and efficient CVD detector | Jean-Etienne Sauvestre | (CEA DAM/DIF) |
| 12:30 | Closing remarks | | |
| 13:00 | End of the Workshop | | |



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