



# 8<sup>th</sup> ADAMAS Workshop @ GSI

## Darmstadt, 9. – 10. December 2019

### A G E N D A

**Workshop venue: GSI, Darmstadt, Planckstraße 1**

**Monday 9.12., 9:30 ⇒ Location ⇒ KBW 1.17 Lecture Hall**

<b>9:30</b>	Registration with Coffee and Tea	
<b>10:25</b>	Welcome	Mladen Kiš
<b>Session I ⇒ CVD Diamond supply</b>		<i>Chair: Matthias Schreck</i>
10:30	Element Six Diamond Material for Radiation Detectors	Tim Mollart (Element Six)
11:00	CIVIDEC - Status and Outlook	Erich Griesmayer (CIVIDEC)
11:30	Diamond detector crystals: how dislocations and point defects limit their performance	Theodor Grünwald (Univ. Augsburg)

**12:15 Photo Session**

**12:30 Lunch**

<b>Session II ⇒ Detector Applications I</b>		<i>Chair: Alexander Oh</i>
<b>14:00</b>	The Belle2 Radiation Monitoring and Beam Abort system based on 28 scCVD diamond sensors	Lorenzo Vitale (INFN & Univ. Trieste)
14:30	Update on diamond based microdosimetry in hadrontherapy	Michal Pomorski (CEA-LIST)
15:00	3D detector production status at Manchester	Ivan Lopez Paz (Univ. Manchester)

**15:30 Coffee Break (30 min)**

<b>Session III ⇒ Detector Applications II</b>		<i>Chair: Erich Griesmayer</i>
<b>16:00</b>	First test of a diamond detector at European XFEL	Wolfgang Freund (European XFEL)
16:30	Development of a beam-tagging diamond hodoscope for online range verification in hadrontherapy	Sébastien Curtoni (UGA-CNRS IN2P3)
17:00	Performance and calibration of the single crystal scCVD reaction time detector of the HADES-experiment	Simon Spies (GSI)
17:30	Response of diamonds to antiprotons	Miha Cerv (CIVIDEC)

19:15 Bus transfer to Darmstadt

**20:00 Workshop Dinner ⇒ Restaurant "Sitte" Darmstadt**

**Tuesday, 10.12., 9:00 ⇒ Location ⇒ KBW 1.17 Lecture Hall**

**Session IV ⇒ Characterization**

*Chair: Lorenzo Vitale*

<b>9:00</b>	Diamond detectors characterization for 235U fission fragments detection at Lohengrin	M.-L. Gallin-Martel (LPSC Grenoble) [Sébastien Curtoni]
9:30	Space Charge in sCVD Diamonds	Christian Dorfer (ETH Zurich)
10:00	scCVD diamond detector signal properties investigated with ion microbeams at elevated temperatures	Andreo Crnjac (RBI Zagreb)

**10:30 Coffee Break (30 min)**

**Session V ⇒ Performance and Simulation**

*Chair: Michal Pomorski*

11:00	Temperature behaviour of diamonds from 2 K to 500 K	Erich Griesmayer (CIVIDEC)
<b>11:30</b>	Diamond detector simulations in GEANT4	Pavel Cavigin (CIVIDEC)
12:00	Performance of UFSD Strip sensors for timing applications	Jerzy Pietraszko (GSI)

**12:30 Closing remarks**

**End of the Workshop**

Contact: m.kis@gsi.de  
m.traeger@gsi.de



[https://www.gsi.de/en/about\\_us/50\\_years\\_gsi/timeline.htm](https://www.gsi.de/en/about_us/50_years_gsi/timeline.htm)