



# 5<sup>th</sup> ADAMAS Meeting @ GSI

## Darmstadt, 14. – 16. December 2016

### A G E N D A

Wednesday, 14.12., 18:00-21:30 ⇒ GSI Guest House

⇒ Registration and Elèni's party

Thursday, 15.12., 9:00 ⇒ Meeting: Location ⇒ KBW Lecture Hall

<b>9:00</b>	Registration	
<b>9:25</b>	Welcome	Mladen Kiš
<b>Session I ⇒ Diamond detector resources</b>		<i>Chair: Matthias Schreck</i>
9:30	Neutron Detection and High Temperature Capability with Diamond Detectors	Colin Wilburn (MICRON)
10:00	News from 2016	Erich Griesmayer (CIVIDEC)
10:30	Neutron diagnostics with diamond detectors	Christina Weiss (CIVIDEC)
<b>11:00</b>	<b>Coffee Break (30 min)</b>	
<b>Session II ⇒ Diamond on Iridium</b>		<i>Chair: Wim de Boer</i>
<b>11:30</b>	Concluding NorRHDia, CARAT, and ADAMAS	Elèni Berdermann (GSI)
12:15	TEM study of dislocations in diamond-on-iridium and first results of ELO experiments	Michael Mayr (Univ. Augsburg)
12:45	Group photo taking	
<b>13:00</b>	<b>Lunch</b>	
<b>Session III ⇒ Beam monitoring applications</b>		<i>Chair: Alexander Oh</i>
<b>14:00</b>	Radiation monitoring and beam abort for the Belle2 Vertex detector	Lorenzo Vitale (INFN & Uni-Trieste)
14:30	Replacement of the Fast Beam Condition Monitor (BCM1F) sensors at CMS	Moritz Guthoff (CERN)
15:00	Research towards diamond based cryogenic beam loss monitors for LHC magnets	Marcin Bartosik (CERN)
15:30	Diamond-like Heat Spreaders in the Form of Cheap Synthetic Graphite Tape for Cooling of Instrumentation in Radiation Intense Environments	Wim de Boer (KIT)
<b>16:00</b>	<b>Coffee Break (30 min)</b>	

<b>Session IV ⇒ 3D Diamonds</b>		<i>Chair: Silvio Sciortino</i>	
<b>16:30</b>	Development of 3D diamond detectors	Iain Hughton	(Univ. Manchester)
17:00	3D Diamond Detector Simulation	Giulio Forcolin	(Univ. Manchester)
17:30	Evaluation of 3D diamond detectors for application in radiation dosimetry	Keida Kanxheri	(INFN & Uni-Perugia)
18:00	$^{13}\text{C}(n,\alpha)^{10}\text{Be}$ cross section measurement	Pavel Kavargin	(CIVIDEC)
18:45	Bus transfer to restaurant		
<b>19:00</b>	<b>Workshop Dinner ⇒ Restaurant “Weißer Schwan” Darmstadt-Arheilgen</b>		

**Friday, 16.12., 9:00 ⇒ Meeting: Location ⇒ KBW Lecture Hall**

<b>Session V ⇒ Thin diamond detectors</b>		<i>Chair: Lorenzo Vitale</i>	
<b>9:00</b>	Electronic properties of I <sub>IIa</sub> HPHT diamond samples from New Diamond Technology	Michal Pomorski	(CEA-LIST)
9:30	Charge multiplication and signal recovery in thin diamond detectors	Natko Skukan	(RBI Zagreb)
10:00	Diamond-based thin detectors for radiobiological applications of charged-particle microbeams	Philippe Barberet	(CENBG)

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

<b>Session VI ⇒ Various applications</b>		<i>Chair: Michal Pomorski</i>	
<b>11:00</b>	The U 304 experiment - Results	Mircea Ciobanu	(ISS Bucharest)
11:30	Large Area Polycrystalline Diamond Detectors for Online Hadron Therapy Beam Tagging Applications	Marie-Laure Gallin-Martel	(LPSC Grenoble)
12:00	High-Temperature alpha-Spectroscopy with Diamond Sensors	Patrick Steinegger	(JINR)
12:30	New results from understanding radiation damage in diamond detectors at CMS	Florian Kassel	(KIT)

**13:00 Lunch**

<b>Session VII ⇒ Radiation tolerance</b>		<i>Chair: Elèni Berdermann</i>	
<b>14:00</b>	Radiation damage studies in scCVD diamond material with protons and heavy ions	Adrian Rost	(GSI)
14:30	Electric Current Characteristics of Irradiated Diamond Detectors	Fabio Schirru	(GSI)

**15:00 Closing Remarks**

**End of the Workshop**

Contact: [m.kis@gsi.de](mailto:m.kis@gsi.de)

