



# 2<sup>nd</sup> Workshop @

## 15. - 17. December 2013



# A G E N D A

## Sunday, 15. 12. ⇒ Welcome-Registration-Down-Town Dinner

**18:00** ⇒ GSI Guest House Foyer

**19:30** ⇒ Bus to restaurant 'Sitte' in Darmstadt

## Monday, 16. 12. Meeting ⇒ KBW Hörsaal ⇒ Room: KBW.1.17

**9:00** Welcome and ADAMAS News Elèni Berdermann (GSI-DL)

### Session I ⇒ Diamond Supply, Post Processing, FEE

*Chair: EBe, GSI*

<b>9:15</b>	Element Six: Synthetic diamond for detector applications	Simon Mathias/Joe Dodson (E6)
9:40	Progress in diamond detector fabrication at Micron Semiconductor	Gwenaelle Lefeuvre (MICRON)
10:05	Micro structuring of diamonds with laser lithography	Carmen Simons (GSI-DL)
10:30	PADI-8 and PADI-8D new ASIC's for Diamond Detectors	Mircea Ciobanu (ISS Bucharest)

**10:55** Coffee Break (25 min)

### Session II ⇒ Advanced CVDD Materials and Sensor Designs

*Chair: Matthias Schreck, UA*

<b>11:20</b>	Efficiency and mechanism of dislocation density reduction during heteroepitaxial growth of diamond for detector applications	Michael Mayr (Uni Augsburg)
11:45	Research on silicon on diamond detectors	Silvio Sciortino (INFN Firenze)
12:10	3D mono- and poly-crystalline diamond detectors: CCE characterization under beta-irradiation	Stefano Lagomarsino (INFN Firenze)
12:35	Update on 3D diamond detectors	Alexander Oh (Uni Manchester)

**12:50** Lunch at GSI canteen + **14:00** Photo Session ⇒ ⇒ ⇒ Nearby the waving flags

### Session III ⇒ CVDD Detector Properties (I)

*Chair: Wim de Boer, KIT*

<b>14:15</b>	Status report on Diamond-on-Iridium (DOI) sensors	Elèni Berdermann (GSI-DL)
14:40	DOI Characterization at DESY	Konstantin Afanaciev (NC PHEP BSU)
15:05	Results of Diamond Characterizations	Maria Hempel (DESY)
15:30	Spectroscopy with diamonds	Erich Griesmayer/ Pavel Kavargin (CIVIDEC) (TU Wien)
15:55	Development of dosimeters based on polycrystalline diamond	Mara Bruzzi (Uni Firenze)

<b>16:20</b>	<b>Coffee Break (25 min)</b>		
<b>Session IV ⇒ CVDD Detector Properties (II)</b>		<i>Chair: Michal Pomorski, CEA</i>	
<b>16:45</b>	Progress towards understanding radiation damage in semi-conductors	Wim de Boer	(KIT Karlsruhe)
17:10	Diamond and silicon as possible candidates for LHC cryogenic beam loss monitors	Marcin Bartosik	(CERN)
17:35	Thin single crystal diamond detectors for alpha particle detection	Fabio Schirru	(GSI-NUSTAR)
18:00	Study of the long-term stability of the thin SC CVD based detector for alpha-spectroscopy	Davit Chokheli	(RBI Zagreb)
<b>19:00</b>	<b>Dinner Buffet, GSI Guest House Foyer</b>		
<b>Tuesday, 17. 12. Meeting ⇒ KBW Hörsaal ⇒ Room: KBW.1.17</b>			
<b>Session V ⇒ Diamond Detector Applications (I)</b>		<i>Chair: John Morse, ESRF</i>	
<b>9:00</b>	Beam loss measurements with diamonds	Erich Griesmayer	(CIVIDEC)
9:25	Ultra-thin scCVD Diamond as X-ray Beam Position Monitor at SOLEIL	Kewin Desjardins	(Synch. SOLEIL)
9:50	Current status of the Fast Beam Conditions Monitor upgrade at CMS using single-crystal diamonds	Jessica Leonard	(DESY)
10:15	Diamond transmission detector for external microbeams	Natko Skukan	(RBI Zagreb)
<b>10:40</b>	<b>Coffee Break (25 min)</b>		
<b>Session VI ⇒ Diamond Detector Applications (II)</b>		<i>Chair: Mladen Kiš, GSI</i>	
<b>11:05</b>	Investigations of heavy ion reactions at low energy with diamond detectors	Olga Beliuskina	(GSI-SHE)
11:30	Diamond detector design for measuring alpha-decay chains	PatrickSteinegger	(PSI)
11:55	Fission fragments time-of-flight spectroscopy with single-crystal diamond	Marc-Olivier Frégeau	(EC-JRC IRMM)
12:20	Actinides detection by alpha-particles spectroscopy in liquids using electrochemically assisted silicon and diamond sensors	Michal Pomorski	(CEA LIST)
<b>12:45</b>	<b>Lunch, GSI canteen</b>		
<b>Session VII ⇒ Diamond Detector Applications (III)</b>		<i>Chair: Christian Schmidt, GSI</i>	
<b>14:15</b>	Neutron Detection with Diamond Detectors	José Duenas	(Uni Huelva)
14:40	Status of single crystal diamond beam monitoring for synchrotron X-ray beams	John Morse	(ESRF)
15:05	Development of diamond detectors for time of flight measurements at the Super-FRS	Fabio Schirru	(GSI-NUSTAR)
15:30	Status of diamond sensors for HADES and CBM	Jerzy Pietraszko	(GSI-HADES)
<b>16:00</b>	<b>End of the Workshop</b>	<b>CJS, EBe (GSI-DL)</b>	

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