



4th ADAMAS Workshop @ GSI

Darmstadt, 2. - 4. December 2015

AGENDA

Wednesday, 2.12., 18:00-21:00 ⇒ Registration and Reception at GSI Guest House

Thursday, 3.12., 9:00 ⇒ Meeting: Location ⇒ KBW 1.17 Lecture Hall

9:00	Registration	
9:30	Welcome	Mladen Kiš
Session I ⇒ Diamond detector resources		<i>Chair: Matthias Schreck</i>
9:45	R&D at Micron 2015	Gwenaelle Lefevre (MICRON)
10:10	Status 2015	Erich Griesmayer (CIVIDEC)
10:35	Recent progress in the growth of heteroepitaxial diamond for detector applications	Michael Mayr (Univ. Augsburg)

11:00 Coffee Break (30 min)

Session II ⇒ X-ray and neutron applications		<i>Chair: Michal Pomorski</i>
11:30	X-ray synchrotron applications; characterization and processing of diamond	John Morse (ESFR Grenoble)
11:55	Activities on diamond-based devices and detectors at CNR-ISM	Marco Girolami (CNR-ISM)
12:20	Fast-neutron diagnostics with CVD diamond detectors	Christina Weiss (CERN)
12:45	Group photo taking	

13:00 Lunch

Session III ⇒ 3D Diamonds		<i>Chair: Silvio Sciortino</i>
14:00	Radiation hardness of monocrystalline, polycrystalline and DOI 3D-diamond sensors	Stefano Lagomarsino (INFN Firenze)
14:25	Laser Processing and Characterization of 3D Diamond Detectors	Steven Murphy (Univ. Manchester)
14:50	Simulation and Development of 3D diamond detectors	Giulio Forcolin (Univ. Manchester)
15:15	Modeling comparison of signal collection in diamond sensors in extreme conditions	Viacheslav Kubytskyi (LAL IN2P)

15:45 Coffee Break (30 min)

Session IV ⇒ Beam monitoring applications		<i>Chair: Alexander Oh</i>
16:30	Machine Induced Background Monitoring with BCM1F	Maria Hempel (DESY)
16:55	The BCM1F Detector: commissioning at LHC Run II and first results	Olena Karacheban (BTU, DESY)

17:20	Future upgrades to the diamond based beam condition monitors at CMS	Moritz Guthoff (CERN)
17:45	Adsorption interaction of TI on quartz: the role of diamond	Patrick Steinegger (PSI)
18:45	Bus transfer to restaurant	

19:00 Workshop Dinner → Restaurant “Bockshaut” Darmstadt

Friday, 4. 12., 9:00 → Meeting: Location → KBW 1.17 Lecture Hall

Session V → Beam monitoring applications		<i>Chair: John Morse</i>
9:55	Diamond detectors for profile and emittance measurements at LINAC4	Thomas Hofmann (CERN)
10:20	Fast diamond membrane detector for the measurement of intense ion bunches	Diana Jahn (GSI)

10:45 Coffee Break (30 min)

Session VI → Radiation effects		<i>Chair: Gwenaelle Lefevre</i>
11:15	Single crystal CVD diamond membranes for betavoltaic cell	Michal Pomorski (CEA-LIST)
11:40	Degradation of diamond detectors with radiation	Veljko Grilj (RBI Zagreb)
12:05	Radiation damage in scCVD diamond material measured with relativistic Au ions for future CBM/HADES experiments at FAIR	Jerzy Pietraszko (GSI)
12:30	Diamond Detector Development for the Super-FRS: Status and Radiation Hardness Tests	Fabio Schirru (GSI)

13:00 Lunch

Session VII → ... and related topics		<i>Chair: Mladen Kiš</i>
14:00	Dose enhancement effects in synthetic diamond for X-ray dosimetry	Dalal Alamoudi (Univ. Surrey)
14:25	Investigations of electric field effects caused by radiation	Florian Kassel (KIT)
14:50	TCT characterization of new generation of DoI samples	Mladen Kiš (GSI)

15:15 Closing Remarks

15:30 End of the Workshop

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