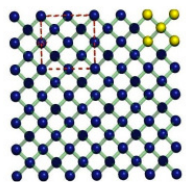


ADAMAS

Advanced Diamond Assemblies

3rd Collaboration Meeting @ ECT*

Trento, 18 – 20 November 2014

AGENDA

Tuesday, 18.11., 20:00 ⇒ **Social Dinner at Restaurant S. Marco, down-town Trento**

Wednesday, 19.11., 9:00 ⇒ **Meeting: Location** ⇒ **ECT* Conference room**

9:00	Registration	
10:00	Welcome and Introduction to ECT*	Wolfram Weise and Elèni Berdermann
Session I ⇒ CVD-Diamond Materials Supply, Sensor R&D, Applications <i>Chair: Christian Schmidt</i>		
10:15	Element Six: Diamond material for radiation detectors	Simon Mathias (Element Six)
10:30	Status of diamond detector R&D at Micron	Gwenaëlle Lefeuvre (MICRON)
10:45	CVD diamond - Ila technology	Detlef Hüffner (Diamtec)
11:00 Coffee Break (30 min)		
11:30	Advanced diamond devices	Arnaldo Galbiati (Solaris Photonics)
11:45	New diamond detector applications	Erich Griesmayer (CIVIDEC)
Session II ⇒ Diamond-on-Iridium (DOI) sensor characteristics <i>Chair: John Morse</i>		
12:00	Dislocations in diamond: their multiple role for growth, stress formation, and crystal properties	Matthias Schreck (Univ. Augsburg)
12:25	Intrinsic DOI sensors - a ¹² C micro-beam study	Elèni Berdermann (GSI)
12:50	⁹⁰ Sr tests with high-performance DOI samples	Konstantin Afanaciev (NC PHEP Minsk)
13:15 Lunch at ECT* Canteen <i>followed by the Photo Session: place tbd</i>		
Session III ⇒ Radiation Hardness (I) <i>Chair: Silvio Sciortino</i>		
14:15	Understanding and mitigating the loss of detector efficiency in the diamond based BCM detectors at CMS due to radiation damage	Moritz Guthoff (CERN)
14:40	Upgrade of BCM1F for fast beam background and luminosity measurements at CMS	Wolfgang Lohmann (BTU Cottbus)
15:05	New approach to simulate radiation damage to single-crystal diamonds with SILVACO TCAD	Florian Kassel (KIT)
15:30	Radiation hardness of 3D poly-crystal diamond detectors	Stefano Lagomarsino (INFN Firenze)
15:55 Coffee Break (30 min) followed by Session IV ⇒ Radiation Hardness (II) <i>Chair: M. Schreck</i>		
16:25	Laser-diamond interaction – Modelling the device damage during laser graphitization	Tzveta Apostolova (INRNE Sofia)
16:50	3D diamond detectors	Alexander Oh (Univ. Manchester)
17:15	Radiation monitoring for the Belle2 VXD	L. Lanceri and L. Vitale (INFN Trieste)

17:40	Diamond as a solid state micro-fission chamber for neutron detection	Michal Pomorski (CEA/LIST)
18:05	Defect passivation approaches for enhanced diamond detector performance	Richard Jackman (Univ. College London)
18:30	Alpha trace detection in liquids	Philippe Bergonzo (CEA/LIST)

19:00 **Welcome Buffet** ⇒ **at ECT* Canteen**

Thursday, 20. 11., 9:00 ⇒ **Meeting: Location** ⇒ **ECT* Conference room**

Session V ⇒ **Applications in Hadron Physics Research ...** *Chair: Wolfgang Lohmann*

9:00	Development of Diamond Detectors for ToF measurements at FRS/Super-FRS	Fabio Schirru (GSI)
9:25	Determination of the working bias of thin diamonds by the time response	José Dueñas (Univ. Huelva)
9:50	Diamond dE-E-ToF-telescope for heavy-ion reactions at the Coulomb barrier	Olga Beliuskina (GSI)
10:15	Application of scCVD for proton beam diagnostics - New developments at IFJ-PAN	Marcin Jastrzab (IFJ Kraków)
10:40	Mosaic diamond detector for MIPs detection in HADES	Lúkaš Chlad (UJF Řež)

11:05 **Coffee Break (30 min)** *followed by* ⇒ **Session VI** *Chair: José Dueñas*

11:35	Fast, precise QDC measurement for high-rate diamond detectors	Adrian Rost (TUD)
12:00	Optical grade diamond material for HADES/CBM high-rate experiments at FAIR	Lindsay Donaldson (Univ. of the Witwatersrand)
12:25	Sapphire sensors for particle detection	Sergej Schuwalow (DESY)
12:50	Tests and first application of sapphire sensors	Alexandr Ignatenko (DESY)

13:15 **Lunch at ECT* Canteen**

Session VII ⇒ **... and Related Fields** *Chair: Michal Pomorski*

14:15	Diamond detector tests at an X-ray Free Electron Laser	Jan Grünert (European XFEL)
14:40	X-ray beam monitoring/ Etching diamond for super-thin membranes	John Morse/ Charlotte Burman (ESRF)
15:05	Dose enhancement near metal electrodes in diamond X-ray detectors	Annika Lohstroh (Univ. Surrey)
15:30	Fabrication of diamond innovative windows for X-ray tubes applications	Colin Delfaure (CEA/LIST)

15:55 **Coffee Break (30 min)** *followed by* ⇒ **Session VIII** *Chair: Mladen Kiš*

16:25	Cryogenic beam-loss monitors for the LHC magnets	Marcin Bartosik (CERN)
16:50	Diamond device fabrication and characterization in Florence	Silvio Sciortino (INFN Firenze)
17:15	First results on biased CMOS MAPS on diamond devices	Keida Kanxheri (INFN Perugia)
17:40	A diamond mosaic detector for therapy and space research	Radek Pleskac (GSI)
18:05	Development of a diamond detector for temporal profile measurements of sub-nanosecond intense ion bunches	Diana Jahn (TUD)
18:20	Large area continuous position sensitive diamond detector tests	Mircea Ciobanu (ISS Bucharest)

19:00 **End of the Workshop** **Closing Remarks** *Mladen, EBe, CJS*

19:30 **Pizza Dinner** *(for whom will depart on Friday)* ⇒ **Pizzeria alla Mostra, down-town Trento**