



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

13. – 15. December 2010

## A G E N D A

### Monday, 13. 12. 2010

17:30	Welcome evening ⇒ ⇒ ⇒ ⇒	GSI Guest House Foyer
19:30	Departure of bus for dinner at restaurant 'Sitte' down town Darmstadt <a href="http://www.restaurant-sitte.de/">http://www.restaurant-sitte.de/</a>	

### Tuesday, 14. 12. Meeting ⇒ Theory seminar room SB 3.170a

9:00 Welcome and News from *Hadronphysics2/3* EBe (GSI, DL)

#### Session I ⇒ Diamond Materials – Growth and Post Processing *Chair: Matthias Schreck*

9:10	The CARAT project: Aims and recent achievements	Christian Stehl (Uni Augsburg)
9:40	Growth and properties of nano crystalline diamond	Hadwig Sternschulte (nanoTUM)
10:10	Status of the silicon-on-diamond technique and perspectives	Silvio Sciortino (INFN Firenze, Italy)

#### 10:40 Coffee Break

#### Session II ⇒ Diamond Materials - Radiation Hardness *Chair: Wolfgang Lohmann*

11:10	Interaction of intense radiation with materials	Tzveta Apostolova (INRNE, Bulgaria)
11:40	Initial kinetics of material excitation and relaxation in swift heavy ion tracks	Alexander Volkov (RRC KI, Russia)
12:10	Radiation hardness studies with relativistic electrons	Sergej Schuwalow (Uni Hamburg; DESY)
12:40	The NIEL Hypothesis - Updates on Simulation and Comparisions to Data	Steffen Müller (CERN/ KIT)

#### 13:00 Lunch at GSI canteen + 14:00 Photo Session ⇒ at the flying flags nearby guest house

#### Session III ⇒ Diamond Materials - Characterization *Chair: Michal Pomorski*

14:30	Electrical characterization of conductivity – basic properties and challenges	Christoph Nebel (IAF Freiburg)
15:00	Conductivity study of CVD-diamond detectors	Shahinur Rahman (GSI, DL)
15:30	Spectroscopy and timing characterization of thin scCVDD detectors	Jose Dueñas (UHU, Spain)
15:50	Exciting news from Diamond-on-Iridium sensors	Elèni Berdermann (GSI, DL)

#### 16:20 Coffee Break

**Session IV ⇒ Detector Applications (I)***Chair: Sergej Schuwalow*

16:50	Diamond Applications in Physics	Alex Brown	(DDL, UK)
17:10	Diamond detectors for medical dosimetry	Jan Würfel	(PTW Freiburg)
17:40	Single crystal diamond for X-ray beam monitoring	John Morse	(ESRF, France)
18:10	Large area duo-lateral position sensitive CVD diamond detectors for X-ray beam monitoring with extreme position resolution	Michal Pomorski	(CEA LIST, France)

**19:15 Dinner Buffet, GSI Guest House Foyer****Wednesday, 15. 12. Meeting ⇒ Theory Seminar Room SB 3.170a****Session V ⇒ Detector Applications (II)***Chair: John Morse*

9:00	Time structure of bunched beams	Jose Dueñas	(UHU, Spain)
9:15	CMS beam condition monitoring for experimental protection during 2010 and Outlook	Moritz Guthoff	(CERN/ KIT)
9:45	Diamond detectors in BCM1F	Maria Elena Castro Carballo	(DESY)
10:15	Status of the diamond pixel tracker for luminosity monitoring	Richard Hall-Wilton	(CERN)
10:45	Preliminary studies and perspectives of 3D CVD diamond sensors	Alexander Oh	(Univ. of Manchester, UK)

**11:15 Coffee Break****Session VI ⇒ Current & Future Detectors for GSI and FAIR***Chair: Chris. Kozhuharov*

11:45	Status of the HADES diamond beam detectors	Jerzy Pietraszko	(GSI, HADES)
12:15	Considerations on the CBM START detector	Dmytro Kresan	(GSI, CBM)
12:45	Development of a diamond Time of Flight detection system for the HISPEC program: Current Status	Nara Singh	(Univ. of York, UK)

**13:15 Lunch, GSI canteen**

14:30	Application of polycrystalline diamond for energy loss and charge-state measurements of heavy ions penetrating laser-generated plasma	Alexander Frank	(TUD/ GSI, PP)
15:00	Status of the R3B diamond detectors for tracking and ToF of relativistic heavy ions	Roman Gernhäuser	(TU München)

**Session VII ⇒ Electronics for Diamond Detectors***Chair: Christian Schmidt*

15:30	Status of the FEE developments for diamond detectors at GSI	Mircea Ciobanu	(GSI, DL)
16:00	Loose-fiber-tube optical cables and their advantages for multi-channel detector readout	Peter Moritz	(GSI, HF Group)
16:30	First results for the new CBM timing-readout-system	Mladen Kiš	(RBI Croatia; GSI, FOPI)

**17:00 End of the Workshop**Contact: [e.berdermann@gsi.de](mailto:e.berdermann@gsi.de)