Workshop on Scintillating Screen Applications in Beam Diagnostics

Monday February 14th, 2011

Session 'Material Properties I', chairperson: Beata Walasek-Höhne			
09:00	O. Kester	Welcome	
09.05	P. Forck	Welcome and workshop overview	
09:15	P. Lecoq	Tutorial: Principle and application of scintillators (45 min)	
10:00	M. Toulemonde	Tutorial: Swift heavy ions and particles tracks in materials: Material sensitivity and thermal spike model (45 min)	
10:45	Coffee break		

Session 'Electron accelerators I', chairperson: Gero Kube

12.20	Buffet Lunch in th	a side room of Looture hall
12:20	All	Discussion on screen usage for electron accelerators
12:00	A. Buck	Scintillating screens for laser-accelerated relativistic electron bunch diagnostics
11:15	A. Lumpkin	Comparisons and applications of scintillator and OTR screens for bright electron beams (45 min)

12:30 Buffet-Lunch in the side room of Lecture hall

Session 'Hadron accelerators I', chairperson: Andreas Peters

15:00	Coffee break	
14:40	All	Discussion on screen usage for hadron accelerators
14:20	R. Krishnakumar	Scintillation screen investigations for 300MeV/u heavy ion beams at \ensuremath{GSI}
13:50	E. Gütlich	Screens studies for ions between 3 and $10 MeV/u$ at GSI (30 min)
13:30	E. Bravin	Usage of screens at CERN

Session 'Technology', chairperson: Peter Forck

15:40	J. Tous	Crytur single crystal scintillator screens
16:00	S. Matern	Scintillation screen variations
16:20	W. Tutsch	Modern CMOS image sensors for scientific and industrial camera applications
16:40	D. Diezemann	Radiation hardness and commercial cameras
17:00	All	Discussion on technical realization and screen usage, Vendors exhibition

17:30 Visit of Material Science Experimental area Bender & Severin

18:30 End of first day

20:00 Dinner at Weißer Schwan, Arheilgen

Tuesday February 15 th , 2011			
Sessi	on 'Material Prope	rties II', chairperson: Marcus Schwickert	
09.00	A. Lushchik	Tutorial: Luminescence and defects creation at the relaxation of various electronic excitations in wide-gap materials (45 min)	
09:45	All	Discussion on material properties related to luminescence	
Sessi	on 'Electron accele	erators II', chairperson: Kay Wittenburg	
10:00	G. Kube	Resolution studies of inorganic scintillation screens for high energetic and high brilliant electron beams	
10:20	Coffee break		
10:50	M. Yan	Influence of observation geometry on resolution for beam profile measurements using scintillation screens	
11:10	R. Ischebeck	Scintillators for SwissFEL	
11:30	S. Bayesteh	Conceptual ideas on single shot trans. diagnostics for electron bunches at REGAE	
11:50	All	Discussion on screen usage at electron accelerators	
12:10	Buffet-Lunch in th	ne side room of Lecture hall	
13:10	S. Rimjaem	Screen investigations for low energetic electron beams at PITZ	
13:30	C. Thomas	Scintillator screens at Diamond	
13:50	M. Olvegaard	OTR screen development at CTF3	
14:10	All	Discussion on screen usage at electron accelerators	
Sessi	on 'Hadron accelei	rators II', chairperson: Peter Forck	
14:30	L. Cosentino	Screen for low current beams	
14:50	G. Perdikakis	Scintillator-based viewers for the low-energy and low-intensity beams of the ReA3 re-accelerator at Michigan State University	
15:10	Coffee break		
15:40	J. Mäder	Usage of screens at the ECR ion source at GSI	
16:00	M. Strohmeier	Scintillator based low energy beam diagnostics at the LBNL 88-Inch Cyclotron	
16:20	All	Discussion on screen usage at hadron accelerators	
Session 'Discussion of workshop results', chairperson: Kay Wittenburg			
16:40	All	Discussion on results, conclusions and perspectives for all subjects	
17:40	End of meeting		

Wednesday February 16th, 2011

09:00	A. Lumpkin	Imaging of charged particle beams with OTR and ODR
10:30	Visit of GSI Facility	Forck & Walasek-Höhne