

Scint2011

Sunday 11 September 2011 - Friday 16 September 2011

Programme

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Sunday 11 September 2011

Registration - Foyer - Office (11:30-14:00)

Tutorial - HS II (14:00-18:00)

time	title	presenter
14:00	Scintillating Mechanisms in Inorganic Scintillators (02h00')	V. EIJK, Carel
16:00	Applications of Inorganic Scintillators (02h00')	TAVERNIER, Stefaan

Registration - Foyer - Office (16:30-20:00)

Welcome Reception - Foyer (18:00-20:00)

Monday 12 September 2011

Opening Ceremony - Plenary (08:45-10:00)

time	title	presenter
08:45	Welcome Address (00h15')	NOVOTNY, Rainer W.
09:00	Congratulatory Remarks (00h15')	BECKER, VICE-PRESIDENT OF THE JUSTUS-LIEBIG-UNIVERSITY, Katja
09:15	Welcome from the Department (00h10')	CASSING, Wolfgang
09:25	Remarks on the Organisation (00h05')	NOVOTNY, Rainer W.
09:30	Noval scintillation detectors for FAIR (00h30')	SCHMITT, Lars

Scintillator Trend I - Plenary (10:30-12:00)

time	title	presenter
10:30	The origins of scintillator non-proportionality (00h30')	MOSES, W.W.
11:00	New approaches to improve timing resolution in scintillators (00h30')	LECOQ, Paul
11:30	High-Resolution Calorimeters based on PWO (00h30')	NOVOTNY, Rainer W.

Scintillator Trend II - Plenary (13:30-15:00)

time	title	presenter
13:30	Scintillator discovery and development for security and safeguards applications (00h30')	BIZARRI, Gregory
14:00	Image based in-vivo dosimetry: from PET to in-beam SPECT (00h30')	FIEDLER, Fine
14:30	Inorganic scintillators for thermal-neutron detection (00h30')	VAN EIJK, Carel

New Scintillators - Plenary (15:00-16:30)

time	title	presenter
15:00	New developments in alkali-earth halide scintillators: crystal growth and scintillation properties (00h30')	BOURRET-COURCHESNE, Edith
15:30	Ten years of the LuAG-based scintillator development - state of the art and prospects (00h30')	NIKL, Martin
16:00	Toward some applications of nanostructures as scintillators (00h30')	DUJARDIN, Christophe

Medical Application - Plenary (17:00-18:30)

time	title	presenter
17:00	New high stopping power thin scintillators based on Lu ₂ O ₃ and LuGG for high resolution x-ray imaging (00h15')	MARTIN, T.
17:15	Continuous or pixelated scintillation detectors for PET- measurements of the spatial resolution (00h15')	STREUN, Matthias
17:30	Enhancement of radiotherapy by scintillating particles (00h15')	GENERALOV, Roman

17:45	LaBr3 and LYSO monolithic crystals coupled to photosensor arrays for time-of-flight PET (00h15')	DENDOOVEN, P.
18:00	Scintillation material needs for achieving <100ps FWHM coincidence resolving time in time-of-flight PET (00h15')	SCHAART, D. R.
18:15	Results of photonic crystal enhanced light extraction on heavy inorganic scintillators (00h15')	KNAPITSCH, Arno

Presentation to the local public - Mathematikum - Auditorium (19:30-21:00)

time	title	presenter
19:30	Es werde Licht: szintillierende Kristalle in Forschung, Medizin und Technik (01h30')	HILLEMANNNS, Hartmut

Tuesday 13 September 2011

High-Energy Physics and Beam Diagnostic I - Plenary (08:30-10:00)

time	title	presenter
08:30	Quality of the PbWO ₄ crystals for the PANDA-EMC (00h15')	EIBNER, Tobias
08:45	Performance of cooled PWO scintillators with signal-sampling readout (00h15')	LÖHNER, Herbert
09:00	Comparing GSO and BGO calibrations with heavy ions and simulations (00h15')	KULKARNI, S. R.
09:15	Experimental study of the lead tungstate scintillator: proton-induced damage and recovery (00h15')	AUFFRAY, Etienne
09:30	A non-linear response of scintillation crystals heavily damaged under radiation (00h15')	MECHINSKI, V.
09:45	Radiation damage and recovery mechanisms in cooled PbWO ₄ crystals (00h15')	KUSKE, Till

High-Energy Physics and Beam Diagnostic II - Plenary (10:30-12:00)

time	title	presenter
10:30	Scintillating screen applications in beam diagnostics (00h30')	WALASEK-HOEHNE, B.
11:00	Imaging properties of scintillation screens for high energetic ion beams (00h15')	KRISHNAKUMAR, Renuka
11:15	Limits of inorganic scintillation materials application in a high dose rate irradiation environment (00h15')	KORJIK, M.
11:30	Development of LSO/LYSO crystals for future HEP experiments (00h15')	ZHU, Ren-Yuan
11:45	Oxygen defects and the scintillating properties of YSO, LSO and LYSO single crystals (00h15')	CHAI, Bruce

Poster I - Foyer I + II (13:30-15:15)

time	title	presenter
13:30	Posters (00h05')	

Homogeneous Hadron Calorimeter - Plenary (15:15-16:30)

time	title	presenter
15:15	Very high resolution hadron calorimetry (00h30')	PARA, Adam
15:45	Status of crystal development for homogeneous hadronic calorimeter (00h30')	ZHU, Ren-Yuan
16:15	Potential scintillators in BSO-based glass systems (00h15')	WANG, C. -Y.

Spezialized Detectors - Plenary (17:00-18:30)

time	title	presenter
17:00	Development of crystal scintillators for enriched isotopes for double beta decay experiments (00h15')	DANEVICH, Fedor A.
17:15	Scintillation properties and internal background study of ⁴⁰ Ca ¹⁰⁰ MoO ₄ crystal scintillators for neutrinoless double beta decay search (00h15')	SO, J. H.
17:30	Measurement of the quenching and channeling effect in CsI(Tl) at KIMS (00h15')	LEE, J. H.

17:45	Scintillation properties of crystals with gamma particles down to 3K (00h15')	VERDIER, M. -A.
18:00	Low temperature luminescence of ZnMoO ₄ single crystals grown by low temperature gradient Czochralski technique (00h15')	SPASSKY, D. A.
18:15	Gamma-Ray detectors consisting of a SDD+Scintillator (00h15')	SCHLOSSER, D. M.

Wednesday 14 September 2011

Fundamentals I - Plenary (08:30-10:00)

time	title	presenter
08:30	Correlation of creation of excitons and electron-hole pairs with the structure of tracks of ionizing particles (00h30')	VASIL'EV, Andrey
09:00	Predictive transport and quenching model for non-proportionality (00h30')	WILLIAMS, R. T.
09:30	Role of non-linear excitation quenching processes and carrier diffusion on the non-proportionality of light yield in scintillators (00h15')	SINGH, Jai
09:45	First-principles calculations for Ce co-doped Ba silicate and alkaline halide scintillators (00h15')	CANNING, Andrew

Fundamentals II - Plenary (10:30-12:00)

time	title	presenter
10:30	Optical properties of Ce ³⁺ and Pr ³⁺ ions in alkaline earth fluorides: first principle study (00h15')	MYASNIKOVA, Alexandra
10:45	Non-proportionality or rare earth activated scintillators under high excitation density conditions (00h15')	VIELHAUER, S.
11:00	Relaxation in nanometric cluster of electronic excitations formed in CsI by 50-1200 eV photons (00h15')	BELSKY, A.
11:15	5d-4f emission of Nd, Ho, Er, Tm ions in alkaline earth fluorides (00h15')	RADZHABOV, E.
11:30	Temperature dependence of LaBr ₃ :Ce non-proportionality (00h15')	KHODYUK, Ivan V.
11:45	TSL and ESR study of hole centers in lead tungstate crystals (00h15')	ZAZUBOVICH, Svetlana

Poster II - Foyer I + II (10:30-12:00)

time	title	presenter
10:30	Posters (00h25')	

Conference Excursion - Parking Area (12:30-21:00)

Thursday 15 September 2011

New Scintillators: Halide scintillators - Plenary (08:30-10:00)

time	title	presenter
08:30	Discovery, synthesis and characterization of new halide scintillators (00h30')	MELCHER, C. L.
09:00	Fundamental and structure limits for CsI based scintillators (00h15')	GEKTIN, A.
09:15	Temperature and concentration dependence of europium doped BaBrI and CsBaI scintillation and optical properties (00h15')	BIZARRI, G.
09:30	Scintillation characterization of RbLiCeCl single crystal (00h15')	ROOH, Gul
09:45	VUV studies on scintillation mechanisms in BaF ₂ :Ce and BaF ₂ :Pr (00h15')	WOJTOWICZ, Andrzej J.

New Scintillators: Oxide scintillators - Plenary (10:30-12:00)

time	title	presenter
10:30	Influence of yttrium content on the Ce_Lu1 and Ce_Lu2 luminescence characteristics in LuY ₂ SiO ₅ :Ce single crystals (00h15')	JARÝ, V.
10:45	Impact of Ce concentrations to scintillation mechanisms in GPS:Ce (00h15')	SIDLETSKIY, O.
11:00	Luminescent and scintillation properties of Tb, Sc co-doped LuAG thin films grown by liquid phase epitaxy (00h15')	KUCERA, M.
11:15	Pr ³⁺ doped in the UV emitting scintillators: properties of pure or mixed (Lu,Y) aluminum garnets (00h15')	MARES, J. A.
11:30	Electron and hole traps in Y ₂ SiO ₅ and Lu ₂ SiO ₅ crystals (00h15')	LAGUTA, V. V.
11:45	Improving LYSO:Ce scintillation properties with Ca ²⁺ and Mg ²⁺ co-doping (00h15')	BLAHUTA, Samuel

Lunch Break - Cafeteria (12:00-13:30)

Poster III - Foyer I + II (13:30-15:00)

time	title	presenter
13:30	Posters (00h05')	

Scintillator Characterization - Plenary (15:00-16:30)

time	title	presenter
15:00	Doped PbI ₂ as an ultra-fast scintillator for time-of-flight (00h15')	DERENZO, Stephen
15:15	Electron response of low-Z scintillators in wide energy range (00h15')	SWIDERSKI, Lukasz
15:30	Modeling self-absorption in SrI:2%Eu and SrI:5%Eu (00h15')	ALEKHIN, Mikhail S.
15:45	Decay kinetics of self-trapped exciton emission in CdWO ₄ scintillators under femtosecond laser excitation in absorption saturation conditions (00h15')	NAGIRNYI, V.
16:00	Cerium oxidation state in LuScBO ₃ host: a combined study by X-ray absorption near edge spectroscopy and X-ray excited luminescence spectroscopy (00h15')	DING, Dongzhou
16:15	Preparation of scintillating single-crystals and ceramics based on BaF ₂ (00h15')	RODNYI, Piotr A.

Detectors for neutrons and security applications - Plenary (17:00-18:30)

time	title	presenter
17:00	Pulse shape discrimination with the elpasolite crystals (00h15')	GLODO, Jarek
17:15	Study of the response of some scintillating crystals to 3 and 15 MeV neutrons (00h15')	AUFFRAY, Etienne
17:30	Application of high-density inorganic scintillators for neutron detection (00h15')	ROEMER, Katja
17:45	Future generation of digital radiation monitors (00h15')	PAUSCH, Guntram
18:00	The neutron detection properties of LiRE(BO):Ce (RE=Y, GD, Lu) crystals (00h15')	YANG, F.
18:15	Fast response and low afterglow Pr- or Ce-doped scintillator with 6Li for laser fusion-originated down-scattered neutron detection (00h15')	MURATA, Takahiro

Conference Banquet - Giessen - Congress Hall (19:45-23:00)

Friday 16 September 2011

Scintillator Technologies I - Plenary (08:30-10:00)

time	title	presenter
08:30	Modern technology of crystal growth (00h30')	YOSHIKAWA, Akira
09:00	Fibercryst involvement in new scintillating concepts (00h30')	PERRODIN, Didier
09:30	Crystal growth and scintillation properties of Ce-doped Gd(Ga, Al)O single crystal (00h15')	KAMADA, Kei
09:45	Cost effective fabrication of high sensitivity, high resolution scintillators (00h15')	BHANDARI, Harish

Scintillator Technologies II - Plenary (10:30-12:00)

time	title	presenter
10:30	RE-doped transparent sesquioxide ceramics for X-ray scintillation (00h15')	VIANA, B.
10:45	Energy relaxation pathways in YAG-based crystals and ceramics (00h15')	KAMENSKIKH, Irina
11:00	Development of phase-separated scintillator with optical guiding function (00h15')	YASUI, Nobuhiro
11:15	Scintillator with Eu complex for alpha particles registration (00h15')	ADADUROV, A. F.
11:30	Scintillating glasses for spezialized applications (00h15')	BLISS, Mary
11:45	Bridgeman growth and properties of LuAG based scintillators (00h15')	PETROSYAN, A. G.

Closing - Plenary (12:00-13:00)

time	title	presenter
12:00	Summary of the conference (00h30')	N. N.
12:30	The conference site 2013 (00h15')	N.N.
12:45	Closing of SCINT 2011 (00h15')	NOVOTNY, Rainer W.