

Monday, September 23, 2013

Time	Event
8:30–9:30	Registration
09:30–09:40	Conference Opening

Time	Presenting author	Title, authors
09:40–10:00	Alexander Gektin	Introduction
10:00–10:45	Richard T. Williams	Interband photon density response: light yield and nonlinearity without electron tracks <i>R. T. Williams, Qi Li, K. B. Ucer, and Joel Q. Grim</i>
10:45–11:10	Coffee break	

Session 1. Fundamentals (1)

Time	Presenting author	Title, authors
11:10–11:45	Joel Q. Grim	From interband photon density response to scintillation: adding tracks, gradients, and high-energy electrons <i>Joel Q. Grim, Qi Li, K. B. Ucer, and R. T. Williams</i>
11:45–12:20	Paul Erhart	Carrier self-trapping in NaI and SrI ₂ from first principles calculations <i>P. Erhart, D. Åberg, and B. Sadigh</i>
12:20–14:00	Lunch	

Session 2. General

Time	Presenting author	Title, authors
14:00–14:35	Aleksandr Lushchik	Factors influencing the energy loss channels related to the creation/transformation of defects in wide gap materials <i>A. Lushchik</i>
14:35–15:10	Mikhail Korjik	Limits of inorganic crystalline materials to operate in a high dose rate irradiation environment at collider experiments <i>M. Korjik</i>
15:10–15:45	Lukasz Swiderski	Non-proportionality measurements of fast and slow decay mode in NaI:Tl <i>L. Swiderski, M. Moszynski, W. Czarnacki, M. Grodzicka, J. Iwanowska, P. Sibczynski, A. Syntfeld-Kazuch, M. Szawłowski, T. Szcześniak</i>
15:45–16:10	Coffee break	
16:10–18:00	Poster session	
18:00	Welcome party	

Tuesday, September 24, 2013

Session 3. Fundamentals (2)

Time	Presenting author	Title, authors
09:00–09:35	Sebastien Kerisit	Mechanisms of scintillator radiation response: Insights from Monte Carlo simulations <i>S. Kerisit, Zh. Wang, D. Wu, R. T. Williams, Joel Q. Grim, and F. Gao</i>
09:35–10:10	Fei Gao	Microscopic Mechanisms of Electron-Hole Generation and Their Spatial Distribution in Inorganic Scintillators <i>F. Gao, Y. Xie, D. Wu, S. Kerisit, M. P. Prange, L. W. Campbell, R. M. Van Ginhoven</i>
10:10–10:45	Marek Moszynski	Absolute light output of scintillators M. Moszynski
10:45–11:10	Coffee break	

Session 4. Luminescence (1)

Time	Presenting author	Title, authors
11:10–11:40	Andrey Vasil'ev	Interplay of different relaxation, recombination, and capture/release channels in scintillators <i>A. Vasil'ev</i>
11:40–12:15	Christophe Dujardin	Final stage of scintillation process: models and evaluation of basic parameters <i>C. Dujardin</i>
12:15–12:35	Sergii Gridin	Excitonic and activator channels of recombination in binary crystals studied using activated CsI <i>S. Gridin, A. Belsky, N. Vasil'ev, N. Shiran, A. Gektin</i>
12:35–14:00	Lunch	

Session 5. Mixed scintillators

Time	Presenting author	Title, authors
14:00–14:35	Andrei Belsky	Local structure effects in mixed scintillators <i>A. Belsky, A. Vasil'ev, A. Gektin</i>
14:35–15:10	Oleg Sidletskiy	Light output and atomic size factor in mixed scintillation crystals <i>O. Sidletskiy, A. Gektin, B. Grinyov, A. Belsky</i>
15:10–15:30	Dmitry Spassky	The modification of energy transfer in the solid solutions of tungstates and RE-doped borates <i>D. Spassky, S. Omelkov, H. Mägi, V. Levushkina, V. Mikhailin, N. Krutyak, I. Tupitsyna, A. Dubovik, A. Yakubovskaya, A. Belsky, M. Tret'yakova, B. Zadneprovski</i>
15:30–16:10	Coffee break	

Session 6. Specific applications

Time	Presenting author	Title, authors
16:10–16:45	Elena Savchenko	Cryogenic scintillating materials <i>E. Savchenko</i>
16:45–17:20	Fedor Danevich	Scintillators to investigate rare processes in nuclear and particle physics <i>F. Danevich</i>
17:20–17:40	Piotr Zhmurin	Increasing the scintillating efficiency of plastic scintillator <i>P. Zhmurin</i>

Wednesday, September 25, 2013

Session 7. Fundamentals (3)

Time	Presenting author	Title, authors
09:00–09:35	Nikolai Galunov	Features of an ionizing particle track formation and its influence on a scintillation process in organic molecular media <i>N.Z. Galunov, O.A. Tarasenko</i>
09:35–10:20	Andrey Vasil'ev	Recombination and capture of carriers in ionizing particle tracks with complex structure <i>A. Vasil'ev</i>
10:20–10:45	Coffee break	

Session 8. Experimental physics

Time	Presenting author	Title, authors
10:45–11:20	Kamil B. Ucer	Picosecond time-resolved studies of scintillation materials and processes <i>K. B. Ucer, Joel Q. Grim, Qi Li, and R. T. Williams</i>
11:20–11:55	Irina Kamenskikh	Tailoring optical properties of scintillator materials <i>I. Kamenskikh</i>
11:55–12:25	E. Meltchakov	Luminescence excitation spectra of scintillators in XUV photon energy range <i>E. Meltchakov, A. Belsky, A. Vasil'ev, A. Giglia, F. Moretti, C. Dujardin, A. Gekht, S. Nanaronne</i>
12:25–14:00	Lunch	
14:00–18:00	ISMA crystal museum/exhibition Scintillator production tour Kharkov city tour	
Evening	Conference banquet	

Thursday, September 26, 2013

Session 9. Halide scintillators

Time	Presenting author	Title, authors
09:00–09:35	Gregory Bizarri	Physics of bright halide scintillators <i>G. Bizarri</i>
09:35–10:10	Edith Bourret-Courchesne	Crystal Growth of Alkali Earth Halides <i>E. Bourret-Courchesne</i>
10:10–10:45	Alexander Kudin	State of surface and scintillation response of hygroscopic crystals to excitation by X-rays and low energy gamma-rays <i>A. Kudin</i>
10:45–11:10	Coffee break	

Session 10. Oxide scintillators

Time	Presenting author	Title, authors
11:10–11:45	Akira Yoshikawa	Development of high performance oxide scintillators <i>A. Yoshikawa</i>
11:45–12:05	Vitezslav Jarý	New phosphor family: RE-doped ternary sulfide $ALnS_2$ (A = Rb, K; Ln = La, Gd, Lu) <i>V. Jarý, L. Havlák, E. Mihókov1, J. Bárta, M. Nikl</i>
12:05–12:25	Olesya Voloshina	Structure, luminescent and scintillation characteristics of $REAO_4$ compounds (RE=Y, Sc, La, Lu, and Gd, A=V, Ta) <i>O.V. Voloshina, S.V. Neicheva, I.M. Zenya, S.S. Gridin, V.N. Baumer, O.Ts. Sidletskiy</i>
12:25–14:00	Lunch	

Session 11. Luminescence (2)

Time	Presenting author	Title, authors
14:00–14:35	Vladimir Makhov	What we know and what we do not know about crossluminescence <i>V. Makhov</i>
14:35–14:55	Anatolii Voloshinovskii	Electronic excitations in fluoride nanoparticles <i>A.S. Voloshinovskii, V.V. Vistovskyy, A.V. Zhyshkovych, A.V. Gektin, A.N. Vasil'ev</i>
14:55–15:15	Vasilii Khanin	Energy transfer studies in (Y,Tb)AG:Ce <i>V. Khanin, P. Rodnyi, A.-M. van Dongen, D. Buettner, C. Ronda</i>
15:15–15:45	Coffee break	

Session 12. Defects

Time	Presenting author	Title, authors
15:45–16:20	Anna Vedda	Center-trap aggregations in oxide scintillators <i>A. Vedda</i>
16:20–16:55	Nataliia Shiran	Structure defects and halide scintillator performance <i>N. Shiran</i>
16:55–17:15	Sergii Vasyukov	Excitation relaxation in pure and Tl and Eu activated NaI lattice <i>S. Vasyukov, S. Gridin, A. Gektin, A. Belsky, N. Shiran, V. Vistovsky</i>

Friday, September 27, 2013

Session 13. Crystal growth and conditions

Time	Presenting author	Title, authors
09:00–09:30	Kheirreddine Lebbou	The recent progress technology on single crystals fibers grown from the melt for detection and scintillation applications <i>K. Lebbou</i>
09:30–09:50	Iaroslav Gerasymov	Crystal engineering of Gd ₂ Si ₂ O ₇ -based scintillators <i>Ia. Gerasymov</i>
09:50–10:10	Evgeny Galenin	Alkali-earth halide scintillators grown by Czochralski technique <i>E. Galenin, V. Romanchuk, S. Vasyukov, S. Gridin, A. Gektin</i>
10:10–10:30	Coffee break	

Session 14. New scintillation materials

Time	Presenting author	Title, authors
10:30–10:50	Harish B. Bhandari	Crystalline structured scintillators <i>H. B. Bhandari, H. Sabet, S. R. Miller, H. B. Barber and V. V. Nagarkar</i>
10:50–11:10	Alexander Zhukov	New types of chalcogenide scintillators based on wide-band-gap A ² B ⁶ -compounds <i>N.G. Starzhinskiy, B.V. Grinyov, V.P. Seminozhenko, V.D. Ryzhikov, A.V. Gektin, A.V. Zhukov, I.M. Zenya, A.I. Lalayants, N.O. Kovalenko, D. Shevchenko, G. Tamulaitis</i>
11:10–11:30	Denis Poda	Development and application of CdWO ₄ crystal scintillators from enriched isotopes for double beta decay search <i>D. Poda</i>
11:30–12:30	Discussion	
12:30–12:40	Conference closing	
12:40–14:00	Lunch	