

VIII German-Russian Seminar on Point Defects in Insulators and Deep-Level Centers in Semiconductors

St.Petersburg, November 9th-15th, 2003

Scientific Program
[Excursion Program](#)

Scientific Program

Monday, November 10th

Morning session. Opening. Single molecules, spins.

9 ³⁰ -9 ⁴⁵	Alexander Kaplyanskii /Ioffe Institute, RAS, SPb/ Albrecht Winnacker /University of Erlangen/	Opening	     
9 ⁴⁵ -10 ²⁵	Joerg Wrachtrup /University Stuttgart/	Switching single spins and electrons in defect centers: From quantum information processing to high density data storage	 
10 ²⁵ -11 ⁰⁵	Karl Rebane /Tartu University/	Optical and Mössbauer zero-phonon lines and informatics problems	  
11 ⁰⁵ -11 ³⁵	Coffee break		
11 ³⁵ -12 ¹⁵	Andrei Naumov /Institute of Spectroscopy RAS, Troitsk, Moscow/	Single molecule spectroscopy as the tool for study of dynamics of disordered solids	  
12 ¹⁵ -12 ⁵⁵	Anatolii N. Starukhin /Ioffe Institute, RAS, SPb/	Effects of spin levels anticrossing in afterglow spectra of triplet states	 

Afternoon session. Silicon Carbide.

14 ³⁰ -15 ¹⁰	Albrecht Winnacker /University of Erlangen/	Rare Earths Ions in SiC: Special Aspects of Semiconductor Physics	 
15 ¹⁰ -15 ⁵⁰	I.V. Ilyin /Ioffe Institute RAS, SPb/	Multivacancy clusters in Silicon Carbide: EPR studies	 
15 ⁵⁰ -16 ³⁰	Matthias Wagner /TU Freiberg/	The Ti-related emission in SiC	 
16 ³⁰ -17 ⁰⁰	Coffee break		

17⁰⁰-18³⁰ **Poster session**

Tuesday, November 11th

Morning session. Nanostructures.

9 ³⁰ -10 ¹⁰	Thomas Nann /University of Freiburg/	Optical and electrical energy transfers in nanocrystal/polymer bulk heterojunction composites	  
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10 ¹⁰ -10 ⁵⁰	N.Sokolov /Ioffe Institute RAS, SPb/	Luminescence of rare-earth ions in fluoride nanostructures on silicon	
10 ⁵⁰ -11 ²⁰	Coffee break		
11 ²⁰ -12 ⁰⁰	S.P. Feofilov /Ioffe Institute RAS, SPb/	Optical spectroscopy of insulating nanocrystals, doped with rare earth and transition metal ions	
12 ⁰⁰ -12 ⁴⁰	A.Reznitsky /Ioffe Institute RAS, SPb/	Optical spectroscopy of ZnCdSe/ZnSe quantum wells with planar CdSe islands	

Afternoon session. Rare earth ions.

14 ³⁰ -15 ¹⁰	Miroslav Batentschuk /University of Erlangen/	Fluorescence in Rare Earth concentrated phosphors	
15 ¹⁰ -15 ⁵⁰	B.Z. Malkin /Kazan State University, Kazan/	Simulation of multiphonon 4f-5d optical bands and relaxation rates in rare earth doped LiYF ₄ crystals (a new interpretation of the energy-gap law)	
15 ⁵⁰ -16 ³⁰	Coffee break		

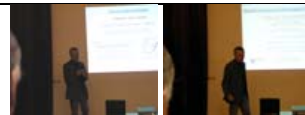
Wednesday, November 12th.

Morning session. Applications.

9 ³⁰ -10 ¹⁰	T.T. Basiev /Institute of General Physics, Moscow/	Two photon spectroscopy of laser crystals with colour centers	
10 ¹⁰ -10 ⁵⁰	Gabi Schierning /University of Erlangen/	CsBr as a storage phosphor	
10 ⁵⁰ -11 ²⁰	Coffee break		
11 ²⁰ -12 ⁰⁰	N.V. Klassen /Institute of Solid State Physics, RAS, Chernogolovka/	Optical properties of defects in PbWO ₄ crystal and its application for elementary particle studies	
12 ⁰⁰ -12 ⁴⁰	Stefan Schweizer /University of Paderborn/	Glass-ceramic based X-ray detectors	

Thursday, November 13th.

EPR, defect structure.

9 ³⁰ -10 ¹⁰	Detlev Hoffman /University of Giessen/	Magnetic resonance on wide bandgap II-VI nanocrystals	
10 ¹⁰ -10 ⁵⁰	N.G. Romanov /Ioffe Institute RAS, SPb/	Silver halide nanocrystals in a crystalline matrix: optically detected magnetic resonance	
10 ⁵⁰ -11 ²⁰	Coffee break		
11 ²⁰ -12 ⁰⁰	Daniel Pfisterer , /University of Giessen/	Defects and Doping in ZnO	
12 ⁰⁰ -12 ⁴⁰	Pavel G. Baranov /Ioffe Institute RAS, SPb/		

Friday, November 14th.

Semiconductors, ionization phenomena.

9 ³⁰ -10 ¹⁰	Jürgen Niklas /TU Freiberg/	Defect-specific topography of semiconductor wafers	 	
10 ¹⁰ -10 ⁵⁰	S.A. Basun /Ioffe Institute RAS, SPb/	Analysis of thermoluminescence glow curves and spectra	 	
10 ⁵⁰ -11 ²⁰	Coffee break			
11 ²⁰ -12 ⁰⁰	Valery Yu. Davydov /Ioffe Institute RAS, SPb/	Optical studies of InN: fundamental absorption edge and defects	 	
12 ⁰⁰ -12 ⁴⁰	I.N. Yassievich /Ioffe Institute RAS, SPb/	Tunneling ionization of deep centers in high-frequency electric field	  	
		Closing	 	

[Site with photos from excursions](#)

