

School-Seminar
“Excitons in Crystals and Nanostructures”
 In commemoration of the 120th anniversary of E.F.Gross’s birth

October 10 (Tuesday) 2017 – October 12 (Thursday) 2017,
 Saint-Petersburg, Russia

Programme

October 10, Tuesday	
10.00 - 10.30	Opening address A.A.Kapliansky, Ioffe Institute; B.V.Novikov, SPbSU. Saint-Petersburg
10.30 - 11.00	Long-living triplet magnetoexcitons and magnetofermionic condensate in GaAs/AlGaAs heterostructures V.B.Timofeyev, IPSS, Chernogolovka
11.00 - 11.30	Indirect excitons in semiconductor nanostructures M.R.Vladimirova, Univ.-Montp.2, France
11.30 - 12.00	Break, coffee
12.00 - 12.30	The dynamics of spinor exciton/polariton system in laterally compressed GaAs microresonators under resonance photoexcitation V.D.Kulakovskiy, IPSS, Chernogolovka
12.30 - 13.00	Fast piezospectroscopy of excitons A.V.Akimov, University of Nottingham, UK.
13.00 - 13.30	Exciton spectroscopy by the method of generation of optical harmonics D.R.Yakovlev, Ioffe Institute, Saint-Petersburg, Russia, Uni. Dortmund, FRG
13.30 - 15.00	Lunch
15.00 - 15.30	Spin physics of excitons in colloidal nanocrystals A.V.Rodina, Ioffe Institute, Saint-Petersburg
15.30 - 16.00	Excitons in nanocrystals of perovskites A.L. Efros. Naval Research lab. Washington, USA
16.00 - 17.00	Fine structure of Rydberg excitons in cuprous oxide M.A.Semina, Ioffe Institute, Saint-Petersburg
17.00 – 19.00	Supper-party
October 11, Wednesday	
10.00 - 10.15	Antiphase Rabi oscillations in semiconductor microresonators N.E.Kopteva, SPbSU, Saint-Petersburg
10.15 - 10.30	Exciton filter in asymmetric system of double wells with quantum dots G.V.Budkin, Ioffe Institute, Saint-Petersburg
10.30 - 10.45	Relaxation of Goldstone spin exciton in the neighbourhood of odd filling factors Stepanetc-Hussein Eldar, MPTI, Moscow
10.45 - 11.00	Effects of spatial dispersion in quantum wells L.V.Kotova, SRUITMO, Saint-Petersburg
11.00 - 11.30	Magnetooptical investigations of above-barrier excitons in ZnSe/BeTe heterostructures A.V.Platonov, Ioffe Institute, Saint-Petersburg
11.30 – 12.00	Break, coffee

12.00 - 12.30	Plasmon-exciton polaritons in metal/semiconductor nanostructures V.A.Kosobukin, Ioffe Institute, Saint-Petersburg
12.30 - 13.00	Exciton states in two-dimensional semiconductor crystals based on dihalogenides of transition metals M.M.Glazov, Ioffe Institute, Saint-Petersburg
13.00 - 13.30	Photonic echo on localized excitons in semiconductor nanostructures I.A.Akimov, Ioffe Institute, Saint-Petersburg, Russia, Uni. Dortmund, FRG
13.30 - 15.00	Lunch
15.00 - 15.30	Evolution of anion and cation excitons in ionic crystals Ch.B- and A.Ch.Lushtchik, Institute of Physics, Uni. Tartu, Estonia
15.30 - 16.00	Exciton-polariton lasers A.V.Kavokin, SPbSU, Russia, Uni.Southampton, UK
16.00 - 19.00	Poster session of young participants
October 12, Thursday	
11.00 - 11.30	Indirect excitons in semiconductor nanostructures T.Shamirzayev, IPS, Novosibirsk
11.30 - 12.00	Polarized photoluminescence of excitons in the magnetic field E.L.Ivchenko, Ioffe Institute, Saint-Petersburg
12.00	Concluding remarks A.A.Kaplyansky, Ioffe Institute, Saint-Petersburg

Poster session, 11.10.2017, Wednesday, 16.00-19.00

- Excitons in the electric field**
P.A.Belov, SPbSU, Saint-Petersburg
- Two-color spectroscopy with a time resolution of single excitons in meza- structures with quantum dots CdTe** K.G. Belyaev, Ioffe Institute, Saint-Petersburg
- Excitons and biexcitons in spheroidal quantum dots of compounds A₂B₆**
A.A. Golovatenko, Ioffe Institute, Saint-Petersburg
- Excitons in the transverse magnetic field**
F.S.Grigoryev, SPbSU, Saint-Petersburg
- Fine structure of Mn acceptor in GaAs**
G.S.Dimitriyev, Ioffe Institute, Saint-Petersburg
- Investigation of deep centers by means of terahertz radiation**
A.S.Kurdyubov
- Ferster resonance energy transfer by light and dark excitons in the arrays of CdSe / ZnSe epitaxial quantum dots**
T.N. Mikhailov, Ioffe Institute, Saint-Petersburg
- Spin beats in InP/InGaP quantum dots**
S.V.Nekrasov, Ioffe Institute, Saint-Petersburg

9. **One-photon emission of InAs / AlGaAs quantum dots**
M.V.Rakhlin, Ioffe Institute, Saint-Petersburg
10. **Spectroscopy of spin noises: a new method of investigation of semiconductors**
I.I.Ryzhov, SPbSU, Saint-Petersburg
11. **Exciton-exciton and exciton-electron scattering in quantum wells**
A.V.Trifonov, SPbSU, Saint-Petersburg
12. **Manifestation of PT symmetry in the exciton spectra of quantum wells**
I.S. Khakhalin IS (AFTU)

Posters from Dortmund:

13. **Nuclear spin cooling by helicity-alternated optical pumping at weak magnetic fields in n-GaAs**
Pavel Sokolov
14. **Dynamics of the Optical Spin Hall Effect**
Daniel Schmidt
15. **Long-range p-d exchange interaction in a ferromagnet-semiconductor Co/CdMgTe/CdTe quantum well hybrid structure**
Ilya Akimov
16. **Photon echoes from exciton complexes in CdTe/(Cd,Mg)Te quantum well structures**
Sergey Poltavtsev
17. **Routing the exciton emission with magnetic field in hybrid magneto-plasmonic semiconductor nanostructures**
Felix Spitzer
18. **Giant interaction effects of Rydberg excitons?**
Julian Heckötter
19. **Optical Second Harmonic Generation on Excitons in ZnO- and ZnSe-based Quantum Wells**
Johannes Mund
20. **Extended pump-probe Faraday rotation spectroscopy of the electron spin dynamics in InGaAs quantum dots**
Vasilii Belykh