



Quantum College



Saint-Petersburg
State University

International School on Spin Dynamics in Semiconductor Structures

Tsakhkadzor (Armenia), 16-22 January 2013

Hosted by:

Doctor Robert Vardanyan^①

Chaired by:

Professor Alexey Kavokin^②

① Quantum College, Erevan, Armenia

② Southampton University, UK

Co-sponsored by





PRELIMINARY PROGRAMME

Tuesday 15 January 2013

Arrival of the participants

20.00 – Welcoming reception at the Writers' House Hotel

Wednesday 16 January 2013

15.30-18.30 Afternoon Session:

15.30-16.00 **Welcome by the Chair, Opening notes**

16.00-17.40 **Lecture (2-hours with 1 break) – "Electron spin dynamics in semiconductors and semiconductor nanostructures"**

Mikhail Glazov (Ioffe Physical-Technical Institute, Saint-Petersburg State University, SOLAB, Russia)

17.40 – 18.00 **Coffee-break**

18.00-19.00 **Talk – "Optically detected NMR in semiconductor nanostructures"**

Ivan Ignatiev (Saint-Petersburg State University, SOLAB, Russia)

Thursday 17 January 2013

15.30-18.30 Afternoon Session:

15.30-17.10 **Lecture (2-hours with 1 break) – "Exchange interaction between band carriers and magnetic Mn ions in paramagnetic and ferromagnetic (Ga,Mn)As and (Ga,Mn)As based structures"**

Victor Sapega (Ioffe Physical-Technical Institute; Saint-Petersburg State University, SOLAB, Russia)

17.10 – 17.30 **Coffee-break**

17.30-18.30 **Talk – "Scaling behaviour of dipolar excitonic condensates"**

Sergey Andreev (University of Montpellier 2, CNRS, France)

Friday 18 January 2013

10.00 - **Excursion to to The Etchmiadzin Cathedral (the oldest state-built church in the world), then to the Cognac Factory "ARARAT". Banquet in Erevan**



Saturday 19 January 2013

- 15.30-18.45** **Afternoon Session:**
15.30-17.10 **Lecture (2-hours with 1 break) - "Spin and collective phenomena in intersubband polaritonics"**
Oleksandr Kirijenko (University of Iceland; Nanyang Technological University, Singapore)
17.10 – 17.30 **Coffee-break**
17.30-18.45 **Talk: "The history of Armenia"**
Alexey Kavokin (University of Southampton, UK; Saint-Petersburg State University, SOLAB, Russia)

19.30 *School **Social Dinner**, National Armenian Cuisine, dancing hall*

Sunday 20 January 2013

- 15.30-18.30** **Afternoon Session:**
15.30-17.10 **Lecture (2-hours with 1 break) – "Optical and electrical manipulation of polariton condensates on a chip"**
Pavlos Savvidis (University of Crete, FORTH, Greece)
17.10 – 17.30 **Coffee-break**
17.30 - 18.30 **Talk: "Polarisation control in linear and nonlinear photonics"**
Nikolay Gippius (LASMEA, CNRS / University Blaise Pascal, France)

Monday 21 January 2013

- 15.30-18.30** **Afternoon Session:**
15.30-17.10 **Lecture (2-hours with 1 break) – "Single mode, single exciton lasing in nanostructures"**
Pavlos Lagoudakis (University of Southampton, UK)
17.10 – 17.30 **Coffee-break**
17.30 - 18.30 **Talk: "Some aspects of spin dynamics of cavity polaritons"**
Ivan Shelykh (University of Iceland; Nanyang Technological University, Singapore)
18.30 – 19.30 **Talk: "Studying of the dynamic spin polarization of electrons and nuclei placed in micro-resonator using pump-probe Kerr rotation"**
Roman Cherbunin (Saint-Petersburg State University, SOLAB, Russia)



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Tuesday 22 January 2013

15.30-16.30

Afternoon Session:

15.30-16.30

Talk: t.b.c.

Anton Nalitov (CNRS / University Blaise Pascal, France)

Wednesday 23 January 2013

Departure of the participants