

3rd Workshop on Nanoscale Spin and Charge Dynamics
PROGRAM
June 8-June 12, 2013

Monday, June 8

- 8:45-9:00 Michael Flatté and Ionel Tifrea
Welcoming Remarks
- 9:00-10:00 Jay Gupta, “Tunable control over individual dopants in semiconductors
via STM positioning of charged defects”
- 10:00-10:15 Discussion
- 10:15-10:45 Coffee Break
- 10:45-11:45 Cyrus Hirjibehedin, “Exploring the Atomic and Molecular Foundations of
Nanospintronics”
- 11:45-12:00 Discussion
- 12:00-1:30 Lunch Break
- 1:30-2:30 Giovanni Vignale, “Spin Hall Effect in Semiconductor Quantum Wells I”
- 2:30-2:45 Discussion
- 2:45-3:15 Coffee Break
- 3:15-3:35 N. Stavrias, “On the electrical detection of the photoionisation of a single
Er centre in an ion-implanted Si transistor”
- 3:35-3:55 V. R. Kortan, “Exchange Interaction of Transition Metal Spin Centers in
Diamond”
- 3:55-4:15 L. E. Kreilkamp, “Tuning of the transverse magneto-optical Kerr effect in
magnetoplasmonic crystals”
- 4:15-5:00 Discussion

Tuesday, June 9

- 9:00-10:00 Marco Polini, “Light-Matter Interactions in Graphene: From
Fundamentals to Plasmonics and Quantum Optics”
- 10:00-10:15 Discussion

- 10:15-10:45 Coffee Break
- 10:45-11:45 Joaquin Fernandez-Rossier, “Spin relaxation mechanisms for localized spins in solids”
- 11:45-12:00 Discussion
- 12:00-1:30 Lunch Break
- 1:30-2:30 Kai Müller, “Ultrafast charge and spin dynamics in self-assembled quantum dots – from tunneling dynamics to coherent optical control of spin qubits”
- 2:30-2:45 Discussion
- 2:45-3:15 Coffee Break
- 3:15-3:35 M. Salewski, “Magnetic-field induced oscillations of spontaneous and stimulated photon echoes from the electron-trion system”
- 3:35-3:55 O. A. Tretiakov, “Domain-wall dynamics in ferromagnets and antiferromagnets”
- 3:55-4:15 N. J. Harmon, “Organic magnetoresistance and magnetoelectroluminescence in the presence of fringe fields”
- 4:15-4:35 M. Țolea, “Measuring the phase of the electron in isospectral shapes: a study of disorder effects”
- 4:35-5:15 Discussion
- 6:00 Banquet

Wednesday, June 10

- 9:00-10:00 Ania Bleszynski Jayich, “Quantum assisted sensing with diamond spins”
- 10:00-10:15 Discussion
- 10:15-10:45 Coffee Break
- 10:45-11:45 Ben Mordin, “Coherent control of charge excitations in hydrogenic silicon impurities”
- 11:45-12:00 Discussion

Afternoon - Excursion

Thursday, June 11

- 9:00-10:00 Martino Poggio, “Harnessing nuclear spin polarization fluctuations in a semiconductor nanowire”
- 10:00-10:15 Discussion
- 10:15-10:45 Coffee Break
- 10:45-11:45 Giovanni Vignale, “Spin Hall Effect in Semiconductor Quantum Wells II”
- 11:45-12:00 Discussion
- 12:00-1:30 Lunch Break
- 1:30-2:45 Scheduled Discussion
- 2:45-3:15 Coffee Break
- 3:15-4:15 Scheduled Discussion
- 4:15-5:00 Open Discussion

Friday, June 12

- 9:00-10:15 Open Discussion
- 10:15-10:45 Coffee Break
- 10:45-12:00 Open Discussion

END OF PROGRAM