

RD2DS-2016

Monday April 4, 2016

Venue: Seaside House

Time

| | | | | |
|-------|-------------------------|------------------|-------------------|---|
| 9:15 | WELCOME | | | |
| 9:20 | INVITED TALK | Alberto | Morpurgo | Probing and controlling the electronic properties of 2D transition metal dichalcogenides and their interfaces |
| 9:55 | INVITED TALK | Yoshihiro | Iwasa | Superconductivity in high density 2D electron systems |
| 10:30 | COFFEE | | | |
| 11:00 | INVITED TALK | Tomoki | Machida | Quantum transport in van der Waals junctions of graphene and 2D materials |
| 11:35 | INVITED TALK | Jun Sung | Kim | Electronic phase transitions in layered metal chalcogenides: from bulk to atomically-thin crystals |
| 12:10 | CONTRIBUTED TALK | Qiong | Ma | Hot Carriers and Photoresponse in Graphene and Graphene-based van der Waals Heterostructures |
| 12:30 | LUNCH | | | |
| 13:30 | INVITED TALK | Vittorio | Pellegrini | Electron-hole systems obtained by combining graphene with gallium arsenide and oxide heterostructures |
| 14:05 | INVITED TALK | Keshav | Dani | Ultrafast electron dynamics in 2D van der Waals crystals |
| 14:40 | COFFEE | | | |
| 15:10 | CONTRIBUTED TALK | Yanmeng | Shi | Energy gaps and layer polarization of integer and fractional quantum hall states in bilayer graphene |
| 15:30 | CONTRIBUTED TALK | Gil-Ho | Lee | Crossed Andreev conversion of quantum Hall edge state in graphene |
| 15:50 | DISCUSSIONS | | | |
| 18:00 | DINNER | | | |

RD2DS-2016

Tuesday April 5, 2016

Venue: Main Campus B250/Seaside House

Time

9:00 *Move to Main Campus B250*

9:30 **INVITED TALK** Qi-Kun Xue Interface Enhanced High Temperature Superconductivity

10:05 **INVITED TALK** Jeanie Lau Quantum Transport and Competing Symmetries in Few-Layer Graphene

10:40 **CONTRIBUTED TALK** Mengjian Zhu Quantum transport in ballistic graphene Josephson junctions

11:00 COFFEE

11:30 **COLLOQUIUM** Amir Yacoby Finite Momentum Pairing and Triplet Correlations in Proximitized Two Dimensional Electron Systems

12:15 *Move to Seaside House*

12:30 LUNCH

13:30 **INVITED TALK** Jurgen Smet Probing charge density wave physics with surface acoustic waves

14:05 **INVITED TALK** Gabor Csathy Electronic stripe and bubble phases farthest away from the mean field description

14:40 COFFEE

15:10 **INVITED TALK** Koji Muraki NMR probing of density-modulated phases in the third Landau level

15:45 **CONTRIBUTED TALK** Qianhui Shi Reorientation of quantum Hall stripes by in-plane magnetic field

16:05 **Poster session**

18:00 DINNER

RD2DS-2016

Wednesday April 6, 2016

Venue: Seaside House

Time

| | | | | |
|-------|----------------------------|---------------|-------------------|---|
| 9:20 | INVITED TALK | Sergey | Ganichev | Terahertz radiation induced resistance oscillations in GaAs heterostructure |
| 9:55 | INVITED TALK | Sergei | Studenikin | Microwave photoresistance in an ultra-high-quality GaAs quantum well |
| 10:30 | COFFEE | | | |
| 11:00 | CONTRIBUTED TALK | Moshe | Ben Shalom | Proximity induced super-current, topological valley-currents and electron's viscosity in graphene |
| 11:20 | LUNCH AND EXCURSION | | | |
| 18:00 | DINNER | | | |

RD2DS-2016

Thursday April 7, 2016

Venue: Seaside House

| Time | | | | |
|-------|------------------|----------|---------------|---|
| 9:20 | INVITED TALK | Denis | Konstantinov | Electrons on Liquid Helium in a Microwave Cavity |
| 9:55 | INVITED TALK | Alexei | Chepelianskii | Probing transport properties of electrons on helium in presence of microwaves and tilted magnetic field |
| 10:30 | CONTRIBUTED TALK | David | Rees | Stick-Slip Motion of the Wigner Solid on Liquid Helium |
| 10:50 | COFFEE | | | |
| 11:20 | INVITED TALK | Rui-Rui | Du | Quantum Spin Hall Effect and Beyond in InAs/GaSb Heterostructures |
| 11:55 | INVITED TALK | Vlad | Pribiag | Induced supercurrents in the edge modes of InAs/GaSb |
| 12:30 | LUNCH | | | |
| 13:30 | CONTRIBUTED TALK | Francois | Couedo | Single-edge transport in a InAs/GaSb quantum spin Hall insulator |
| 13:50 | INVITED TALK | Li | Lu | Signatures of Majorana fermions in rf-SQUIDs constructed on Pb-Bi ₂ Te ₃ surface |
| 14:25 | COFFEE | | | |
| 14:55 | INVITED TALK | Michael | Zudov | Non-equilibrium transport in 2D systems: recent progress and open issues |
| 15:30 | CONTRIBUTED TALK | Joseph | Falson | Microwave induced resistance oscillations in MgZnO/ZnO heterostructures |
| 15:50 | CONTRIBUTED TALK | Yaroslav | Beltukov | Microwave-induced resistance oscillations as a classical memory effect |
| 16:10 | DISCUSSIONS | | | |
| 18:00 | WORKSHOP DINNER | | | |

RD2DS-2016

Friday April 8, 2016

Venue: Seaside House

| Time | | | | |
|-------|------------------|---------|----------------|--|
| 9:30 | INVITED TALK | Ray | Ashoori | Observation of a Long-Range Ordered Wigner Crystal by Means of Electron Tunneling Spectroscopy |
| 10:05 | INVITED TALK | Lloyd | Engel | Electron solids in wide quantum wells |
| 10:40 | CONTRIBUTED TALK | Inti | Sodemann | Correlated states in multicomponent Landau levels beyond the composite fermion paradigm |
| 11:00 | COFFEE | | | |
| 11:30 | INVITED TALK | Yoshiro | Hirayama | Quantum transport and nuclear related phenomena in GaAs and InSb quantum systems |
| 12:05 | CONTRIBUTED TALK | Anton | Schepetilnikov | Electron spin resonance in a strongly correlated two-dimensional electron system in [001] AlAs quantum well |
| 12:25 | LUNCH | | | |
| 13:30 | INVITED TALK | Sergey | Dorozhkin | Dynamics in the microwave-induced zero-resistance states |
| 14:05 | INVITED TALK | Ivan | Dmitriev | Oscillatory and static domain phases in zero resistance state |
| 14:40 | COFFEE | | | |
| 15:10 | CONTRIBUTED TALK | Ivan | Andreev | Coherent and Incoherent Contributions to the Relaxation of 2D Electron Magnetoplasma Cyclotron Resonance |
| 15:30 | CONTRIBUTED TALK | Chi | Zhang | Observation of the Edge Magnetoplasmon Oscillations and Strong Plasmon Resonances in A Two-Dimensional Hole System |
| 15:50 | CONTRIBUTED TALK | Irina | Khmyrova | Electroluminescence spectra of GaN/InGaN multi-QW systems under spatially nonuniform carrier injection |
| 16:10 | DISCUSSIONS | | | |
| 18:00 | DINNER | | | |