



**UK-Japan Workshop**  
Lancaster University, 3-4 February 2011

**Thursday 3<sup>rd</sup>**

12:00-14:00	Registration and buffet lunch in the Conference Centre	
<b>Session 1</b>	<b>Session dedicated to the memory of Alex Savchenko</b>	
	Chair: Volodya Fal'ko	
14:00-14:40	Kostya Novoselov (I) <i>Interactions in mono- and bi-layer graphene</i>	T1
14:40-15:00	David Horsell (I) <i>Quantum interference in graphene</i>	T2
15:00-15:20	Saverio Russo (I) <i>Functionalized graphene with fluorine</i>	T3
15:20-15:40	Alexander Samuels <i>Doping efficiencies and physisorption of small molecules on graphene</i>	T4
15:40-16:00	Mikhail Titov <i>Transport in undoped graphene with resonant scatterers: from ballistic to diffusion and criticality</i>	T5
16:00-16:30	Coffee	
<b>Session 2</b>	Chair: Henning Schomerus	
16:30-16:50	Leonid Ponomarenko (I) <i>Quantum capacitance of graphene</i>	T6
16:50-17:10	Jens Martin <i>Local compressibility measurements of correlated states in suspended bilayer graphene</i>	T7
17:10-17:30	Marcin Mucha-Kruczynski <i>Bilayer graphene under strain</i>	T8
17:30-18:05	Tsuneya Ando (I) <i>TBA</i>	T9
18:05-18:40	Andrea Ferrari (I) <i>TBA</i>	T10
18:40-19:00	Discussion about a UK graphene network [Volodya Fal'ko]	
19:00-20:00	Dinner	
20:00-22:00	Poster session in the Conference Centre	

## Friday 4<sup>th</sup>

### Session 3

Chair: TBA

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|-------------|------------------------------------------------------------------------------------------------------------------------------|-----|
| 09:00-09:35 | Jonathan Coleman (I)<br><i>TBA</i>                                                                                           | T11 |
| 09:35-09:55 | Peter Beton<br><i>Formation of a two-dimensional polymer by covalent coupling of small molecules</i>                         | T12 |
| 09:55-10:15 | Robert Maher<br><i>In-situ Raman spectroscopy of graphene and graphene oxide in reducing atmospheres at high temperature</i> | T13 |
| 10:15-10:35 | Tim Echtermeyer<br><i>Polarization and wavelength dependence of graphene-based photodetectors</i>                            | T14 |
| 10:35-11:05 | Coffee                                                                                                                       |     |

### Session 4

Chair: Vadim Cheianov

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|-------------|--------------------------------------------------------------------------------------------------|-----|
| 11:05-11:40 | Jan-Theodoor Janssen (I)<br><i>Application of epitaxial graphene in quantum metrology</i>        | T15 |
| 11:40-12:15 | Kentaro Nomura (I)<br><i>Magnetic field induced symmetry broken insulating phase in graphene</i> | T16 |
| 12:15-12:35 | Simon Hands<br><i>Theoretical Study of Excitonic Condensation in Graphene</i>                    | T17 |
| 12:35-14:00 | Buffet lunch in the Conference Centre                                                            |     |

### Session 5

Chair: Ed McCann

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|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 14:00-14:35 | Irina Grigorieva (I)<br><i>Magnetism in graphene</i>                                                                                                                          | T18 |
| 14:35-15:10 | Hideo Aoki (I)<br><i>How can we manipulate graphene physics – chiral symmetry, topology and optics</i>                                                                        | T19 |
| 15:10-15:30 | Peter Maksym<br><i>Graphene quantum dots in the zeroth Landau level</i>                                                                                                       | T20 |
| 15:30-16:05 | Katsunori Wakabayashi (I)<br><i>Low-energy physical properties of nano-graphene systems</i>                                                                                   | T21 |
| 16:05-16:40 | Toshiaki Enoki (I)<br><i>Edge effect on the electronic structure of graphene</i>                                                                                              | T22 |
| 16:40-17:00 | Junji Haruyama (I)<br><i>Large band gaps, ferromagnetism, and anomalous magnetoresistance oscillations derived from edge states; nanoribbon and antidot-lattice graphenes</i> | T23 |
| 17:00       | Closing and Coffee                                                                                                                                                            |     |