

Spring Term 2009/2010

Monday 1 March 2010

Optical lattices and Bose gases

Organisers: **A. Rodriguez**, **R.A. Römer**, **D. Ueltschi**

Morning talks (9am-12:40pm) in **D1.07**. Afternoon talks (2pm-6pm) in **B3.02**. Talks will be followed by a 5 minute discussion

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| 09:00-09:10 | Welcome |
| 09:10-09:50 | Robert Kerr (Warwick) <i>Numerical generation of a vortex ring cascade in quantum turbulence</i> |
| 09:55-10:35 | Dimitri Gangardt (Birmingham) <i>Quantum impurity problem in ultracold gases: from dark solitons to quantum ferromagnets</i> |
| 10:40-11:10 | Tea, coffee and biscuits (Mathematics Institute Common Room) |
| 11:10-11:50 | Kai Bongs (Birmingham) <i>Fermi-Bose mixtures in optical lattices</i> |
| 11:55-12:35 | Volker Betz (Warwick) <i>Critical temperature of dilute Bose gases</i> |
| 12:40-14:00 | Lunch (Mathematics Institute Common Room) |
| 14:00-14:40 | Valentin Zagrebnov (Université de la Méditerranée) <i>Anisotropic generalised BEC with two critical densities</i> |
| 14:45-15:25 | Joe Bhaseen (Cambridge) <i>Collective dynamics of Bose-Einstein condensates in optical cavities</i> |
| 15:30-16:00 | Tea, coffee and biscuits (Mathematics Institute Common Room) |
| 16:00-16:40 | Hermann Schulz-Baldes (Erlangen-Nuernberg) <i>Quasi-one-dimensional random operators: random phase property, Lyapunov spectrum and delocalization</i> |
| 16:45-17:25 | Benjamin Schlein (Cambridge) <i>Effective evolution equations for many body quantum systems</i> |
| 17:30 | Drinks & Snacks (Mathematics Institute Common Room) |

Talks will be held in the Mathematics Institute, Zeeman Building, University of Warwick
For detailed MIR@W programmes please see our website: go.warwick.ac.uk/miraw/days