

Autumn Term 2010/2011

Monday 29 November 2010

Nonlinear Engineering Problems and Challenges

Organisers: Igor Khovanov (Warwick Engineering) and Nigel Stocks (Warwick Engineering)

All talks will be in Room B3.02, Mathematics Institute, University of Warwick

12:30-13:45 Buffet Lunch in the Mathematics Institute Common Room

13:45-14:00 *Introduction*

14:00-14:50 **Stefano Beri** (Dept. Applied Physics & Photonics, Vrije Universiteit Brussel) *The Stochastic and Nonlinear Dynamics of Semiconductor Ring Lasers*

14:50-15:40 **Neil Evans** (School of Engineering, Warwick) *Quantification of antibody binding kinetics using surface plasmon resonance*

15:45-16:15 Tea in the Mathematics Institute Common Room

16:15-16:35 **Hin Kwan Wong** (School of Engineering, Warwick) *The Jump Resonance Phenomenon in Nonlinear Feedback Systems*

16:35-17:25 **Petr Denissenko** (Fluid Dynamics Group, Warwick) *Engineering vs mathematical approaches illustrated with the example of runup statistics and the non-linear wave dynamics*

17:30 Drinks and snacks in the 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