

# Summer Term 2013/2014

**Monday 2 June 2014**

## **Complex Systems Dynamics (CoSyDy) Meeting: Complex Dynamics in Neuroscience**

Organiser: Claude Baesens

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

12:15-13:00 Buffet Lunch in the Mathematics Institute Common Room

13:00-14:00 **Stephen Coombes** (Mathematical Sciences, Nottingham) *Neural interface dynamics: from spots to spirals*

14:00-14:20 **Wessel Woldman** (Mathematics, Exeter) *Modelling of epileptic seizures: internal dynamics and network connectivity structure in a bistable setting*

14:20-15:00 **Roman Borisyuk** (Computing and Mathematics, Plymouth) *Mathematical modelling of oscillatory basal ganglia activity in normal and Parkinsonian condition*

15:00-15:30 Tea in the Mathematics Institute Common Room

15:30-16:30 **Maciej Krupa** (INRIA, Paris-Roquencourt) *Multiple timescales, canards, mixed-mode oscillations and bursting in mathematical neuroscience*

16:30-16:50 **Francesco Fermani** (Systems Biology, Warwick) *From experimentally verified neuron models to the spatiotemporal dynamics of neuronal fields*

16:50-17:30 **Rachel Nicks** (Mathematics, Birmingham) *Standing and travelling waves in a spherical brain model*

17:30 Wine and snacks in the Mathematics Institute Common Room

Attendance is free and open to everyone. However, for catering purposes, please register by email to [claudio.baesens@warwick.ac.uk](mailto:claudio.baesens@warwick.ac.uk) by Wednesday 28 May.

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For more information please email Claude Baesens ([claudio.baesens@warwick.ac.uk](mailto:claudio.baesens@warwick.ac.uk)).