Imperial College London





Complexity & Networks Programme

Gabor Seminar Room, 611 The Electrical and Electronic Engineering Dept Building South Kensington, London http://www3.imperial.ac.uk/complexityandnetworks

How the brain works:

Insights from complexity and self-organization

Sponsored by the Beckley Foundation http://www.beckleyfoundation.org/

Wednesday 21^{st} September 2011

The meeting is open to everyone, but please register by email to r.carhart-harris@imperial.ac.uk. for catering purposes

13:00	Henrik Jeldtoft Jensen (Complexity & Networks and Dept of Math, Imperial College) Welcome.
13:02 - 13:10	Robin Carhart-Harris (Neuropsychopharmacology Unit, Imperial College London) Thanks to Amanda Feilding – and remarks on the Beckley Foundation.
13:10 - 13:35	Henrik Jeldtoft Jensen (Complexity & Networks and Dept of Math, Imperial College) What does Complexity Science have to offer Neuroscience?
13:35 - 14:00	Kim Christensen (Complexity & Networks and Dept of Physics, Imperial College) Self-similarity in the brain
14:00 - 14:10	Discussion
14:10 - 14:25	Refreshments
14:25 - 15:10	Karl Friston (Wellcome Trust Centre for Neuroimaging, UCL, London, UK) Self-organisation and free energy
15:10 - 15:55	Ed Bullmore (Dept of Psychiatry, University of Cambridge, UK) Brain graphs: what can graph theory tell us about brain complexity?
15:55 - 16:10	Discussion
16:10 - 16:40	Tea
16:40 - 17:25	Murray Shanahan (Dept of Computing, Imperial College) Metastable Neurodynamics from Complex Brain Networks
17:25 - 18:10	Roseli S. Wedeman (Instituto de Matem. e Estatstica, Univ. do Estado do Rio de Janeiro) Associativity in Complex Networks and the Modeling of Mental Processes
18:10 - 18:25	Discussion
18:25 - 18:30	Henrik Jeldtoft Jensen(Complexity & Networks and Dept of Math, Imperial College) Closing remarks
For mo	re information email Robin Carthart-Harris (r.carhart-harris@imperial.ac.uk) or

Henrik Jeldtoft Jensen (h.jensen@imperial.ac.uk)