



Institute for Mathematical Sciences

Meeting venue: Read Lecture Theatre, Level 5, Sherfield Building,
South Kensington, SW7 2AZ London
www.imperial.ac.uk/mathsinstitute

“Complexity and Networks - Neuroscience”

The Mind: Neurophysiological imprints of its state

Wednesday 19th May 2010

The meeting is open to everyone, but please register by email to m.salviato@imperial.ac.uk

- 12:00 – 12:05 **Prof. Henrik Jeldtoft Jensen** (IMS & Dept. of Math, Imperial College London)
Welcome and introductory remarks
- 12:05 – 12:35 **Dr David Dolan (piano)**
with Matthew Featherstone (flute) and Andrew Balch (viola)
(Guildhall School of Music & Drama, London)
Investigating the communication of the state of wonder
- when risk-taking, freedom and structure meet.
Classical improvisation as a catalyst of creativity and enhanced musical dialogue
- 12:35 – 13:20 **Prof. John Sloboda** (Guildhall School of Music & Drama, London)
Psychological processes in the generation of peak emotional moments in music
- 13:20 – 13:30 **Break**
- 13:30 – 14:15 **Dr Lauren Stewart** (Goldsmiths, University of London)
When all the songs sounds the same: Insights into the musical brain
- 14:15 – 14:25 **Break**
- 14:25 – 15:10 **Prof. Rainer Goeble** (University of Maastricht, The Netherlands)
Real-time decoding of mental states - A BOLD-based communication BCI
- 15:10 – 15:20 **Break**
- 15:20 – 16:05 **Dr Miguel Castelo-Branco** (University of Coimbra, Portugal)
Neurobiological basis of emergent perceptual states
- 16:05 – 16:35 **Coffee, tea and biscuit break**
- 16:35 – 17:05 **Prof. Claudio R Mirasso** (University de les Illes Balears, Spain)
Dynamical analysis of beauty versus non-beauty perception
- 17:05 – 17:15 **Break**
- 17:15 – 17:35 **Paul Expert** (IMS & Dept. of Physics, Imperial College London)
Self-similarity in the rest-state fMRI
- 17:35 – 17:55 **Shama Rahman** (IMS & Dept. of Physics, Imperial College London)
Quantitative indicators of musical creativity
- 17:55 – 18:00 **Prof. Kim Christensen** (IMS & Dept. of Physics, Imperial College London)
Closing remarks

For more information email Henrik Jeldtoft Jensen (h.jensen@imperial.ac.uk)