

Program Schedule – StatPhysHK

Venue: Lecture Theater, Institute for Advanced Study, Lee Shau Kee Campus of HKUST

| 17 July 2013 (Wednesday) | | |
|--------------------------|--|--|
| <u>Time</u> | <u>Event</u> | <u>Presenter</u> |
| 8:30 – 8:50 | Registration | |
| 8:50 – 9:00 | Welcome Remarks | |
| 9:00 – 9:40 | Talk #1: “Interaction between Synaptic Plasticity and Network Dynamics” | Guoqiang Bi [<i>University of Science and Technology of China</i>] |
| 9:40 – 10:20 | Talk #2: “Simulating and Decoding Neuronal Spike Trains Millisecond-By-Millisecond” | Barry Richmond [<i>US National Institute of Mental Health</i>] |
| 10:20 – 10:50 | Refreshments | |
| 10:50 – 11:30 | Talk #3: “Spontaneous Reverberation in Developing Neuronal Culture Networks” | Chi Keung Chan [<i>Academia Sinica</i>] |
| 11:30 – 12:10 | Talk #4: “Interface Dynamics in Planar Neural Field Models” | Stephen Coombes [<i>The University of Nottingham</i>] |
| 12:10 – 12:20 | Poster Spotlight | |
| 12:20 – 13:50 | Lunch | |
| 13:50 – 14:20 | Poster Session | |
| 14:20 – 15:00 | Talk #5: “The Complexity of Neural Responses in Auditory Cortex and Its Functional Implications” | Xiaoqin Wang [<i>Johns Hopkins University</i>] |
| 15:00 – 15:30 | Talk #6: “Auditory Pitch Cells Can Emerge from Natural Sound Statistics: An Analogy with Visual Complex Cells” | Hiroki Terashima [<i>The University of Tokyo</i>] |
| 15:30 – 16:00 | Refreshments | |
| 16:00 – 16:40 | Talk #7: “Higher-order Correlation in a Feed-forward Network with Inhomogeneous Connectivity” | Masato Okada [<i>The University of Tokyo</i>] |

Venue: Dr Hari Harilela Lecture Theatre (WLB103), Shaw Campus of Hong Kong Baptist University

| 18 July 2013 (Thursday) | | |
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| <u>Time</u> | <u>Event</u> | <u>Presenter</u> |
| 8:50 – 9:00 | Welcome Remarks | |
| 9:00 – 9:40 | Talk #8: “What Does Activity Have to Do with It? Development of Visual Circuits before Vision” | Michael Crair [<i>Yale University</i>] |
| 9:40 – 10:20 | Talk #9: “Development of Mice Visual Pathway” | Jiayi Zhang [<i>Fudan University</i>] |
| 10:20 – 10:50 | Refreshments | |
| 10:50 – 11:30 | Talk #10: “Human Brain Connectomics: Mapping, Physiology and Disease” | Yong He [<i>Beijing Normal University</i>] |
| 11:30 – 12:10 | Talk #11: “Neural Network Dynamics Explored Through a Simple Excitable Model” | Claus Hilgetag [<i>University of Hamburg</i>] |
| 12:10 – 14:00 | Lunch | |
| 14:00 – 18:00 | Excursion | |
| 18:00 – 21:00 | Banquet | |

Venue: Lecture Theater, Institute for Advanced Study, Lee Shau Kee Campus of HKUST

| 19 July 2013 (Friday) | | |
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| <u>Time</u> | <u>Event</u> | <u>Presenter</u> |
| 9:00 – 9:40 | Talk #12: “A Zero Parameter Quantitative Prediction from the V1 Saliency Hypothesis and Its Experimental Test” | Zhaoping Li [<i>University College London</i>] |
| 9:40 – 10:20 | Talk #13: “Medial Temporal Lobe Switches Memory Encoding in Neocortex through Cholecystokinin” | Jufang He [<i>The Hong Kong Polytechnic University</i>] |
| 10:20 – 10:50 | Refreshments | |
| 10:50 – 11:30 | Talk #14: “Bio-Inspired Control and Learning in Cognitive Robot Systems” | Jianwei Zhang [<i>University of Hamburg</i>] |
| 11:30 – 12:10 | Talk #15: “Modelling Synaptic Plasticity and Memory Retention” | Mark van Rossum [<i>University of Edinburgh</i>] |
| 12:10 – 14:00 | Lunch | |
| 14:00 – 14:40 | Talk #16: “Active Noise Genesis and Memory Processes in Recurrent Neural Networks” | Tomoki Fukai [<i>RIKEN</i>] |
| 14:40 – 15:10 | Talk #17: “Conductance-Based Refractory Density Approach and Its Application to Biophysically Detailed Modeling of Cortical Neuronal Populations” | Anton Chizhov [<i>Ioffe Physical-Technical Institute</i>] |
| 15:10 – 15:40 | Refreshments | |
| 15:40 – 16:30 | Talk #18: “First Passage through a Fluctuating Boundary: A Phase Transition with Implications for Neural Coding” | Marcelo Magnasco [<i>The Rockefeller University</i>] |
| 16:30 – 16:50 | Concluding Remarks | |