Computation, Dysfunction, and the Brain Workshop at the Computational Neuroscience meeting in Prague, July 23 Organizers: Rowshanak Hashemiyoon & Christoph Michel

<u>Agenda</u>

Each talk lasts 40 minutes and 10 minutes discussion

I. Structure and Dynamics of Brain Networks

| 9:00 – 9:10 | Welcome address and Introduction |
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| 9:10 – 10:00 | Viktor Jirsa, Aix-Marseille University, Marseille Functional connectivity dynamics in large-scale brain networks |
| | 10:00-10:30 Coffee Break |
| 10:30 – 11:20 | Christoph Michel, University of Geneva, Geneva Temporal dynamics of neuronal networks and aberrations in neurological and psychiatric disorders |
| 11:20 – 12:10 | Marc Goodfellow, University of Exeter, Exeter The importance of network structure in seizure initiation |
| 12:10 – 13:30 | Lunch |
| II. Neurophysiology and Modulation of Brain Networks | |
| 13:30 – 14:20 | Anthony Grace, University of Pittsburgh, Pittsburgh The circuit dynamics of dopamine system regulation and its disruption in psychiatric disorders |
| 14:20 – 15:10 | Giacomo Koch, Foundation Santa Lucia, Rome Neuromodulation of cortico-cortical circuits with TMS: From basic neurophysiology to clinical application |
| 15:10 – 15:40 | Coffee Break |
| III. Effects of Therapeutic Strategies on Brain Networks | |
| 15:40 – 16:30 | Rowshanak Hashemiyoon, University Hospital of Cologne, Cologne Effects of DBS on circuit dynamics in movement and neuropsychiatric disorders |
| 16:30 – 17:20 | Günter Schiepek, Paracelsus Medical University, Salzburg Discontinuous patterns of brain activation during psychotherapy |
| 17:20 – 17:30 | General Discussion |