

Organizers:

Bernstein Zentrum für Computational Neuroscience Berlin  
Interdisciplinary Center Computational Neuroscience at the  
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10115 Berlin

and

GRK 1589/2 “Sensory Computation in Neural Systems”

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## PROGRAM, WEDNESDAY, OCTOBER 11, 2017, OPENING SYMPOSIUM

9.00	Opening, Michael Brecht
9.05-9.20	Greetings Dr. Ludwig Kronthaler, Vice President HU Berlin Prof. Dr. Frank Heppner, Vice ProDean Charité Prof. Dr. Hans-Ulrich Heiß, Vice President TU Berlin
<b>SESSION I</b>	Chair: Wilhelm Stannat
9.20-10.00	<i>tba</i> Larry Abbott, Columbia University, New York
10.00-10.40	<i>How far is the next spike? Gradient learning in spiking neurons</i> Robert Gütig, MPI Göttingen
10.40-11.10	<i>COFFEE BREAK</i>
<b>SESSION II</b>	Chair: Richard Kempter
11.10-11.50	<i>Principles of efficient coding in neuronal populations</i> Julijana Gjorgjieva, MPI Frankfurt
11.50-12.30	<i>tba</i> Surya Ganguli, Stanford University
11.50-12.30	<i>tba</i> Fred Wolf, MPI Göttingen
12.30-14.00	<i>LUNCH BREAK</i>
<b>SESSION III</b>	Chair: John-Dylan Haynes
14.00-14.40	<i>tba</i> Arianna Maffei, Stony Brook University, New York
14.40-15.20	<i>Rhythms for Cognition: Communication through Coherence</i> Pascal Fries, Ernst Strüngmann Institute, Frankfurt
15.20-16.10	<i>COFFEE BREAK</i>
<b>SESSION IV</b>	Chair: Susanne Schreiber
16.10-16.50	<i>Sensorimotor Decisions</i> Daniel Wolpert, University of Cambridge
16.50-17.30	<i>tba</i> Andreas Herz, LMU München
18.30	<i>GRADUATION CEREMONY 2017, DINNER</i>

## PROGRAM, THURSDAY, OCTOBER 12, 2017, WORKSHOP

9.00	Opening, Klaus Obermayer
<b>SESSION I</b>	Chair: Klaus Obermayer
9.05-9.45	<i>Physically Based Modeling and Analysis of Brain Activity and Function</i> Peter Robinson, University of Sydney
9.45-10.25	<i>From vision to navigation: a journey across mouse cortex</i> Matteo Carandini, UCL London
10.25-10.55	<i>COFFEE BREAK</i>
<b>SESSION II</b>	Chair: Henning Sprekeler
10.55-11.35	<i>tba</i> Adrienne Fairhall, University of Washington
11.35-12.15	<i>tba</i> Jozsef Csicsvari, Institute of Science and Technology Austria, Klosterneuburg
12.15-14.00	<i>LUNCH BREAK WITH SPECIAL DISCUSSION CORNERS</i>
<b>SESSION III</b>	Chair: Marianne Maertens
14.00-14.40	<i>Shaping Network Dynamics via Individual Neurons</i> Tatjana Tchumatchenko, Max-Planck-Institute for Brain Research, Frankfurt
14.40-15.20	<i>tba</i> Maneesh Sahani, UCL
15.20-16.10	<i>COFFEE BREAK</i>
<b>SESSION IV</b>	Chair: Benjamin Lindner
16.10-16.50	<i>tba</i> Sonja Grün, FZ Jülich
16.50-17.30	<i>Embodied Cognition</i> Peter König, Universität Osnabrück
18.30	<i>DINNER</i>