International Seminar and Workshop on

Complex Dynamics in Large-Scale Interacting Brain Systems: Towards Physical Models of Sleep and Consciousness

Seminar: June 08 - 25, 2009 — Workshop: June 21 - 25, 2009

Scientific coordination:

Peter Achermann University of Zürich Zürich, Switzerland

Eckehard Olbrich MPI for Mathematics in the Sciences Leipzig, Germany

Thomas Wennekers University of Plymouth Plymouth, U.K.

Organisation:

Claudia Pönisch, MPI für Physik komplexer Systeme, Dresden, Germany

Recent developments in the physically realistic modelling of functional systems of the mammalian brain ask for an ever increasing need to develop novel concepts and overarching theories that allow to link the microscopic dynamics of neural circuits with brain functions on the systems level. The workshop specifically aims at debating the state-of-the-art concepts and theories for the physics of large-scale brain activity and its relation to ongoing computational processes in the brain. Out of this broad area, the workshop will focus on sleep, consciousness and memory.

Invited speakers:

M. Bazhenov (Riverside)	L. Jäncke (Zürich)	J. Taylor* (London)
S. Bressler (Boca Raton)	J. Jost (Leipzig)	F. Tretter (München)
J. Ch. Claussen (Lübeck)	J. Kurths (Berlin)	I. Ulbert (Budapest)
V. Crunelli (Cardiff)	P. Maquet (Liège)	P. A. Valdes-Sosa (Havanna)
A. Destexhe (Gif-sur-Yvette)	M. Massimini (Milan)	M. Wilson (Waikato)
J. Fell (Bonn)	T. Metzinger* (Mainz)	-07-07-00-00-00
K. Friston (London)	R. D. Pascual-Marqui (Zürich)	* to be confirmed
S. Hill (Lausanne)	P. Robinson (Sydney)	
R. Huber (Zürich)	A. K. Seth (Brighton)	
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Applications are welcome and should be made by using the application form on the workshop web page (please see URL below). The number of attendees is limited. The registration fee for the workshop is 100 € and should be paid by all participants. Costs for accommodation and meals will be covered by the Max Planck Institute. Limited funding is available to partially cover travel expenses. Please note that childcare is available upon request.

Deadline for applications is February 28, 2009.



For further information please contact: Visitors Program - Claudia Pönisch Max-Planck-Institut für Physik komplexer Systeme, Nöthnitzer Str. 38, D-01187 Dresden, Germany Tel.: +49-351-871-2198 / Fax: +49-351-871-2199 codybs09@mpipks-dresden.mpg.de



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