

SPEAKERS

Cristina Becchio, UKE, Hamburg, DE
https://www.uke.de/english/physicians-and-scientists/wissenschaftlerprofilseite_cristina_becchio.html

Gustavo Deco, Universitat Pompeu Fabra, Barcelona, ES
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Tobias Donner, UKE, Hamburg, DE
<https://tobiasdonner.net/people/#1449583052223-5787cafe-c538>

Andreas K. Engel, UKE, Hamburg, DE
<http://www.40hz.net/>

Tom Froese, Okinawa Institute of Science and Technology, JP
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Claus Hilgetag, UKE, Hamburg, DE
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Christopher Honey, Johns Hopkins University, Baltimore, US
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Peter König, Universität Osnabrück, DE
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Georg Northoff, University of Ottawa, CA
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Satu Palva, University of Helsinki, FI
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Stefano Panzeri, UKE, Hamburg, DE
https://www.uke.de/english/physicians-and-scientists/mitarbeiterprofilseite_stefano_panzeri.html

Friedemann Pulvermüller, Freie Universität Berlin, DE
<https://www.geisteswissenschaften.fu-berlin.de/v/brainlang/Team/FPulvermuller.html>

Mavi Sanchez-Vives, IDIBAPS, Barcelona, ES
<https://www.clinicbarcelona.org/en/idibaps/areas-and-programs/clinical-and-experimental-neuroscience/systems-neuroscience>

Paul Verschure, Radboud University, NL
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Cordula Vesper, Aarhus University, DK
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European School of Network Neuroscience (euSNN)

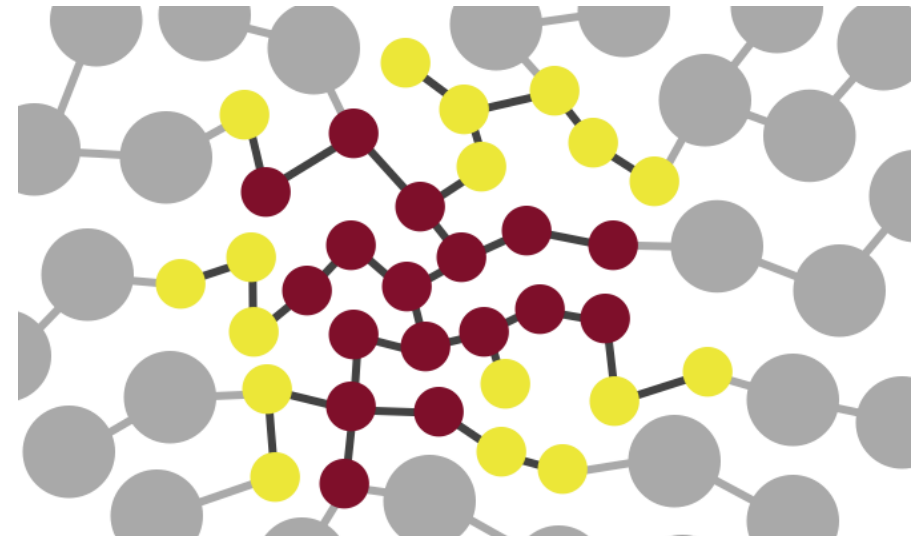
An Innovative Training Network (ITN) of the Marie Skłodowska-Curie Actions



in cooperation with the

Academy of Sciences and Humanities in Hamburg

AKADEMIE DER
WISSENSCHAFTEN
IN HAMBURG



June 17 – 18, 2024

**International Workshop
Advancing Brain Theory**

Networks – Multi-Timescale Dynamics – Embodiment



PROGRAM

Duration of talks: 30 min

Sunday June 16		
18:30	Informal get-together	
Monday June 17		
09:00	Functional roles of multi-timescale neural coupling	Andreas Engel
09:30	From neural to mental states: timescales matter	Georg Northoff
10:00	Discussion	
10:30	Coffee break	
11:00	Leaving the slow oscillatory state: a multi-scale cortical study	Mavi Sanchez-Vives
11:30	Flexible behavior through adaptive brain network dynamics	Tobias Donner
12:00	Neuroscience needs behavior: an information-based approach to measure behavior	Cristina Becchio
12:30	Discussion	
13:15	Lunch	
14:30	Irruption theory and neural desynchronization	Tom Froese
15:00	Coordinating and communicating through actions: what can joint action research tell us about brain and cognition?	Cordula Vesper
15:30	Discussion	
16:00	Coffee break	
16:30	Brain criticality and synchronization dynamics	Satu Palva
17:00	Discussion	
18:30	Barbecue dinner	

Tuesday June 18		
09:00	Complex harmonics reveal the fundamental networks underlying human cognition	Gustavo Deco
09:30	How interactions between neurons shape perceptual decision making	Stefano Panzeri
10:00	Discussion	
10:30	Coffee break	
11:00	Embodied cognition and gaze graphs	Peter König
11:30	How to build meaning in brain-constrained networks: from Hebbian learning to concepts and abstraction	Friedemann Pulvermüller
12:00	Escape from the real world through nested frequency codes: coding formats, virtualization and action control	Paul Verschure
12:30	Discussion	
13:15	Lunch	
14:30	A connectomic hypothesis for the hominization of the brain	Claus Hilgetag
15:00	Hierarchical timescales in brains and minds	Christopher Honey
15:30	Discussion	
16:00	End of workshop	

VENUE

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