International SFB 936 – euSNN Symposium "Role of neural oscillations in the healthy and diseased brain" March 1st, 2023, 09:00-17:00 h Erika-Haus, UKE Campus

PROGRAM

Regular talks 30 min + 15 min discussion, Controversy 30 min + 30 min + 25 min discussion

	Topic	Speaker
09:00	Opening	
09:05	Pro - Oscillations cause behavior <u>Title:</u> Visuo-saccadic coordination by alpha oscillations during visual exploration and reading	Ole Jensen
09:35	Contra - Oscillations are an epiphenomenon <u>Title</u> : Solving the binding problem: assemblies form when neurons enhance their firing rate – they don't need to oscillate or synchronize	Pieter Roelfsema
10:05	Discussion with the audience	
10:30	Break	
11:00	Altered oscillations in disease 1 <u>Title</u> : Gamma-band oscillations in schizophrenia: mechanisms, biomarkers and the search for novel treatments	Peter Uhlhaas
11:45	Altered oscillations in disease 2 <u>Title</u> : Adaptive DBS – are we ready for clinical application?	Andrea Kühn
12:30	Lunch break	
13:30	Altered oscillations in disease 3 <u>Title</u> : Low-frequency oscillations in motor control and motor stroke	Marlene Bönstrup
14:15	Optogenetic studies on oscillations <u>Title:</u> Oscillatory patterns and spatio-temporal dynamics in the mouse prefrontal cortex	Katharina Heining
15:00	Break	
15:30	Scale-bridging models of oscillations <u>Title:</u> Using computational models to infer neural circuit parameters and information processing functions from LFP and EEG oscillation spectra	Stefano Panzeri
16:15	Modeling of network dynamics <u>Title:</u> Turbulent dynamics based analysis of brain in health and disease	Gustavo Deco
17:00	End	