

# SAVE THE DATE: SCIENTIFIC LECTURE SERIES

MOVEMENT DISORDERS & NEUROMODULATION UNIT  
CHARITÉ – UNIVERSITY MEDICINE BERLIN

**17th January 2019 | 5:30 PM**

**Seminarraum Neurologie**

Bonhoefferweg 3, Klinik für Neurologie (CCM)



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## **Whole-brain dynamics and neuromodulation: models and mechanisms**

Novel analysis methods have allowed for better identification of large-scale dynamic brain networks in MEG and fMRI. Crucially, however, in order to understand the underlying mechanisms of brain self-organization processes, we have constructed whole-brain models integrating anatomical connectivity, functional activity and even neuromodulator receptor density from multimodal imaging (e.g. MEG, fMRI, DTI, PET) of human participants. This approach has led to novel causal insights into the mechanisms governing human brain function in health and disease.



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