### Day 1: Wednesday

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tr>
<td>08:30</td>
<td>Registration</td>
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<tr>
<td>09:00</td>
<td>Introduction</td>
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| 09:25 - 10:40| Session M1: Signal Processing and Time Series Modeling  
Chairs: Stalin Haufe | Natalie Schavoronkov  
Not just frequency: Neural oscillations and their characteristic waveform shape  
Srikantan Nagarajan  
Structure-function integration with MEG - Spectral graph modeling of neural oscillations  
Sara Sommariva  
MEG inverse problem: A word of caution towards connectivity estimation |
| 10:40 - 11:25| Coffee Break and Mind-Matching Session I   |                                 |
| 11:25 - 13:05| Session C2: Aging and Dementia  
Chairs: Srikantan Nagarajan and Erfan Baradarantohidi | Kamalini Ranasinghe  
(Keynote) Neuronal hyperexcitability and neurophysiological manifestations in AD  
Myriam Sander  
Oscillatory traces of age differences in episodic memory  
Carlos Coronel  
Hypoexcitation and connectome disintegration via whole-brain semi-empirical modeling in neurodegeneration (#23)  
Tara Ghafari  
Hemispheric lateralisation of spontaneous brain oscillations predict volumetric asymmetries in the basal ganglia: Unveiling MEG biomarkers for early diagnosis of neurodegenerative diseases (#37)  
Jana Fehring  
Unraveling of interplay between cortical structure, function, and age using largescale time-series analysis (#63) |
| 13:05        | Lunch                                      |                                 |
| 13:55        | Poster Session I                           |                                 |
| 14:45        | Coffee Break                               |                                 |
| 15:05 - 17:00| Session C3: Psychiatric and Developmental Disorders  
Chairs: Nikita Agarwal and Lorena Cecilia López Steinmetz | Peter Uhihaas  
(Keynote) Gamma-band oscillations and schizophrenia: A translational and developmental perspective  
Marieke van Vught  
From mind-wandering to depression: Using spontaneous thinking to develop EEG biomarkers of rumination  
Daniel Kluger  
Multimodal brain-body coupling in health and disease (#58)  
Amirreza Nadimi Shahrahi  
Neurocomputational characterisation of multisensory processing in autism and schizophrenia (#40)  
Antea D’Andrea  
Different mindfulness meditation styles are mediated by distinct MEG microstate dynamics and complexity patterns (#33)  
Domenico Voso  
Brain-fingerprinting correlates of the EEG response to transcranial magnetic stimulation (#25) |

### Day 2: Thursday

| Time         | Session C1: Movement Disorders  
Chairs: Vadin Nikulin and Jasmin Del Vecchio Del Vecchio | Ashwini Oswal  
(Keynote) Title: TBA  
Rachel Spooner  
Magnetoencephalography for the investigation of distant deep brain stimulation effects in Parkinson’s disease  
Moritz Gerster  
Leverdopa-induced spectral modulation of STN-LFPs in Parkinson’s disease patients - A multi-center comparison (#26)  
Zixiao Yin  
Basal ganglia-muscular communication is related to REM sleep behavior disorder in Parkinson’s disease (#20)  
Jasmin Del Vecchio Del Vecchio  
Palidal oscillations and clinical improvement in dystonia with deep brain stimulation (#56) |
| 9:00 - 10:40 | Coffee Break and Mind-Matching Session II |                                 |
| 10:40 - 11:25| Session M3: Machine Learning, Multivariate and Statistical Modeling  
Chairs: Sara Sommariva and Mohammad Orabe | Alain de Cheveigné  
Virtual electrode or virtual scalpel? A cancellation-based approach to data analysis and source localization  
TBA  
Sam Gjison  
Self-supervised learning for encoding pathological between-subject information in EEG data (#29)  
Sotirios Papadopoulos  
Fast and reliable hand motor imagery decoding based on beta burst rate modulations (#18)  
Nikolai Kapralov  
Optimization of M/EEG spatial filters for extraction of ROI time series based on cross-talk function (#38)  
Benedikt Ehinger  
A general (cluster-) permutation test for mass-univariate linear mixed models (#19) |
| 11:25 - 13:05| Lunch                                      |                                 |
| 13:05        | Session M1: Signal Processing and Time Series Modeling (Cont.)  
Chairs: Vittorio Pizzella and Nikolai Kapralov | Laura Marzetti  
(Keynote) Title: TBA  
TBA  
Vadin Nikulin  
Unifying neural oscillations and evoked responses  
Stefan Haufe  
Estimating across-site PAC, delays, and complex network properties under source mixing  
Pranay Yadav  
Mechanisms of modality-specific slowing of sensory processing due to ageing (#15) |
| 13:55 - 16:00| Lunch                                      |                                 |
| 16:00        | Coffee Break                               |                                 |
| 16:25 - 16:50| Closing Remarks                             |                                 |

### Day 3: Friday

| Time         | Session M4: Open Science  
Chairs: Tian Dung Nguyen and Anuja Negi | Guiomar Niso  
(Keynote) Beyond neural traces: Open and reproducible M/EEG research throughout the full cycle  
Adina Wagner  
DataLab - Data management for open science  
Thomas Bines and Tian Dung Nguyen  
ROConnect and PyEEG: Open-source toolboxes for advanced EEG signal processing and functional connectivity analysis (#30 and #31)  
Anuja Negi  
Investigating the effect of noise-level misspecification in M/EEG inverse solutions (#47) |
| 09:00 - 10:40| Coffee Break                               |                                 |
| 10:40        | Session M2: Hardware, Forward and Inverse Modeling  
Chairs: Laura Marzetti and Sikkum Rika | Jens Haueisen  
(Keynote) Title: TBA  
Tilmann Sander-Thömmes  
MEG with OPM sensors: Opportunities for signal processing and modeling  
Nils Harmening  
HARTrMuT – Modeling eye and muscle contributors in neuroelectric imaging (#21)  
Marion Brickwede  
Signal-to-noise comparison for auditory steady-state responses between EEG, OPM-MEG and SQUID-MEG – A validation study (#65) |
| 11:00 - 12:30| Lunch                                      |                                 |
| 12:30        | Lunch                                      |                                 |
| 13:20        | Poster Session II                          |                                 |
| 14:10        | Coffee Break                               |                                 |
| 14:30 - 16:25| Session C4: Epilepsy and Sleep  
Chairs: Kara Götz and Margarita Sison | Christophe Grova  
(Keynote) EEG/MEG source imaging applications in sleep and epilepsy  
Pieter von Mierlo  
Advanced EEG analysis in epilepsy: Localization and diagnosis  
Umesh Vivekananda  
The cognitive implications of epilepsy at a functional network and single neuronal level  
Margarita Sison  
Integrating subdural EEG-derived spectral and functional connectivity features of focal seizures to improve delineation of the epileptogenic zone (#45)  
Kara Götz  
Minimally invasive ictal EEG source localization including sphenoidal electrodes (#66) |
| 16:25 - 16:50| Closing Remarks                             |                                 |