BRAIN DYNAMICS WORKSHOP

EVENT PROGRAM

Wednesday 25. 9.

16:00	Coffee break			
16:30	Opening	Jaroslav Hlinka	ICS	
16:45	Keynote	Davide Momi	Stanford University	Modelling of brain stimulation and network dynamics
17:45	Discussions			
18:00	Transfer to dinner including minimal sightseeing			
19:00	Dinner - by own choice - not covered by the project – reservation in the restaurant *Stará Praha*			
21:00	End of Day			

Thursday 26. 9.

9:30	Coffee morning			
Topical session 1: Schizophrenia - Multimodal imaging (Chair: Filip Španiel)				
10:00	Talk 1	Filip Španiel	NUDZ	Can long-term brain dynamics unlock the code of schizophrenia?
11:00	Talk 2	David Tomeček	NUDZ	Resting-state functional connectivity in early schizophrenia
11:15	Talk 3	Jaroslav Hlinka/Anna Pidnebesna	ICS/NUDZ	Brain graphs: persistent homology/dojmology and other stories
11:30	Coffee break			

Co-funded by the European Union

MINISTRY OF EDUCATION, YOUTH AND SPORTS

Akademie věd České republiky

STRATEGIE AV21
Špičkový výzkum ve veřejném zájmu

12:00	Talk 4	Eduard Bakštein	CTU/NUDZ	Cinical outcome prediction from multimodal data: lessons learned from the ESO trajectory challenge
12:30	Talk 5	Barbora Rehák Bučková	ICS/NUDZ	Multimodal neuroimaging machine learning for disease and symptom prediction
13:00	Talk 6	Dominik Klepl, Karolína Volfíková, Jakub Svoboda	ICS	machine learning from (f)MRI
13:30	Lunch			
Topical session 2: Psychedelics (Chair: Jiří Horáček)				
14:30	Talk 1	Jiří Horáček	NUDZ	Psychedelic science: from neuroimaging to clinical relevance
15:10	Talk 2	Nikola Jajcay	ICS/NUDZ	Model inference for psychedelics
15:35	Talk 3	Vlastimil Koudelka	NUDZ	Psilobeats: EEG correlates of music perception after psilocybin
16:00	Coffee break			
16:30	Talk 4	Jan Hubený	NUDZ	EEG synchronization of the emerging collective brain during the Ayahuasca ritual: Methods and pilot results
16:50	Talk 5	Veronika Langová	NUDZ	G. petersii fish: A novel model organisms of schizophrenia
17:10	Talk 7	David Greguš	NUDZ	Can cortical thickness predict Psilocybin experience?
17:30	Talk 8	Petr Adámek	NUDZ	Perceptual theory of schizophrenia and its modeling
17:45	Talk 9	Dominika Grygarová	NUDZ	Neurophenomenology: A Refined Approach to Understanding Neural Dynamics
18:00	Dinner - onsite			
19:00	BRADY management meeting (Closed session)			
19:30	Wine networking event - covered			

Co-funded by the European Union
MINISTRY OF EDUCATION, YOUTH AND SPORTS
Akademie věd České republiky
STRATEGIE AV21
Špičkový výzkum ve veřejném zájmu

Friday 27. 9.

9:30	Coffee morning			
Topical session 3: brain stimulation (TMS, ...) (Chair: Jan Kremláček)				
10:00	Talk 1	Jan Kremláček	LFHK UK	Introduction to NIBS - TMS, tES
10:30	Talk 2	Jan Kremláček	LFHK UK	TMS-EEG - BRADY project
10:30	Talk 3	Shih Cheng Chien	ICS	A Biological Model of Spinal and Peripheral Motor Pathways for TMS-induced MEPs
11:30	Coffee break			
12:00	Talk 4	Monika Klírová	NUDZ	RTMS in clinical settings
12:30	Talk 5	Monika Klírová	NUDZ	Predictors of response to deep transcranial magnetic stimulation treatment in mental disorders
13:00	Talk 6	Nina Biačková	NUDZ	TACS - Background and development of a clinical trial
13:30	Lunch			
14:30	Discussions			
16:00	Final remarks			

Aknowledgements:

The program was supported by ERDF-Project Brain dynamics, No. CZ.02.01.01/00/22_008/0004643

The program was supported by Lumina quaeruntur (LQ100302301)

The program was partialy supported by the Czech Academy of Sciences program Strategy AV21 Breakthrough Technologies for the Future – Sensing, Digitisation, Artificial Intelligence and Quantum Technologies