GRADIENTS OF BRAIN ORGANIZATION

8:30 – 9:00	**Registration & Coffee**
9:00 – 9:15	**Welcome**
9:15 – 10:45	**Methods and multimodal applications** Chairs: Sofie Valk and Jessica Royer

- Integrated Effective Connectivity Reveals Sensory-Fugal Hierarchy in the Human Brain
  Younghyun Oh(Sungkyunkwan University, Korea)
- Multiparametric mapping of superficial white matter architecture using 7T quantitative MRI
  Youngeun Hwang and Raul Rodriguez-Cruces (McGill University, Canada)
- Biologically annotated brain connectomes
  Vincent Bazinet (McGill University, Canada)
- Uncovering principles of white matter organization in relation to cognition in youth
  Joelle Bagautdinova (University of Pennsylvania, USA)
- Panel discussion

10:45 – 11:00	**Coffee break**
11:00 – 12:15	**Gradients beyond the neocortex** Chairs: Boris Bernhardt and Shinwon Park

- Striatal connectivity gradients map onto cortico-striatal and dopaminergic projections across health and disease
  Marianne Oldehinkel (Radboud University, Netherlands)
- Statistical mapping of cortico-subcortical gradients using geometric eigenmodes
  Nikitas Koussis (University of Newcastle, Australia)
- Task-general connectivity model reveals variation in convergence of cortical input to cerebellum
  Maedbh King (Massachusetts Institute of Technology, USA)
- Panel discussion

12:15 – 13:15	**Lunch break**

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13:15 – 13:30	**Flash talks**
13:30 – 14:45	**Gradients and artificial intelligence** Chairs: Bo-yong Park and Seok-Jun Hong

- GAN-MAT: Generative Adversarial Network-based Microstructural Profile Covariance Analysis Toolbox
  Yeong Jun Park (Sungkyunkwan University, Korea)

- Adolescent maturation of cortical excitation-inhibition balance based on individualized and GPU-accelerated biophysical network modeling
  Amin Saberi (Max Planck Institute for Human Cognitive and Brain Sciences, Germany)

- Title TBD
  Mashbayar Tugsbayar (Mila - Quebec AI Institute, Canada)

- Panel discussion

14:45 – 15:00	**Coffee break**
15:00 – 16:15	**Gradients for individual phenotyping** Chairs: Daniel Margulies and Sara Larivière

- Variability in sensory-association axis, evidence from sex- and individual differences
  Bianca Serio (Max Planck Institute for Human Cognitive and Brain Sciences, Germany)

- Using a neural state-space to understand cognition and behaviour
  Samyogita Hardikar (Max Planck Institute for Human Cognitive and Brain Sciences, Germany)

- Motion Effects in Procrustes Aligned Individual-Level Gradients
  Leonard Sasse (Institute of Neuroscience and Medicine, Brain and Behaviour (INM-7), Germany)

- Panel discussion

16:15 – 16:30	**Closing comments**
16:30 – 18:00	**Poster session and cocktail**