

Munich Neurotechnology Lecture

hosted by the TUM Innovation Network
Neurotechnology in Mental Health

Prof. Martijn Arns

- Lecture Hall TranslaTUM
- November 30th, 2023
- 5:00 pm

Stratified Psychiatry in Depression: The role of EEG biomarkers and iPhone derived Heart-Brain Coupling

Prof. Martijn Arns is the Research Director of the non-profit Brainclinics Foundation and an Associate Professor at the Department of Cognitive Neuroscience at Maastricht University. He has pioneered the concept of Stratified Psychiatry to advance the treatment of psychiatric disorders. His research uses brain imaging data (EEG), heart-brain coupling,

chronobiology, sleep, and Research Domain Criteria (RDoC) to optimize and individualize treatment. Moreover, he has pioneered the application of non-invasive neuromodulation techniques, such as magnetic brain stimulation (rTMS) for depression and OCD treatment and neurofeedback for ADHD treatment.