

rmn² Teaching Program



2019/20

Name der Veranstaltung		Transcranial Brain Stimulation: from Basics to Advanced Applications			
verantwortlicher Dozent/in	Akad. Titel	Dr. Til Ole Bergmann			
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weitere Dozent/innen					
Verantwortliche Einrichtung		Deutsches Resilienz Zentrum (DRZ)			
Veranstaltungsform (Praktikum, Workshop, etc)		Workshop			
Veranstaltungsadresse		NIC Seminar room R39, Langenbeckstr. 1, Geb. 701, EG, 55131 Mainz			
Unterrichtssprache		English			
Beginn und Ende der Veranstaltung	Datum	von	25.06.2019	bis	27.06.2019
Termine	Montag	von		bis	
	Dienstag	von	10:00	bis	17:00
	Mittwoch	von	10:00	bis	17:00
	Donnerstag	von	10:00	bis	17:00
	Freitag	von		bis	
maximale Teilnehmerzahl		20			
minimale Teilnehmerzahl		3			
Maximale Fehltermine		1			
Besondere Kriterien zur Erlangung der Credit Points		no			
Inhalt, bzw. Ziel der Veranstaltung Sonstige Bemerkungen		<p>Non-invasive brain stimulation techniques such as transcranial magnetic stimulation (TMS) and transcranial current stimulation (TDCS/TACS) are important tools in cognitive neuroscience and human neurophysiology. The ability to experimentally manipulate local neuronal activity allows the investigation of causal structure-function relationships that complement the correlative approach of neuroimaging and electrophysiology. "Online" approaches, assessing the immediate neural response to stimulation, can be used to (i) quantify neuronal network properties such as excitation, inhibition, or connectivity, (ii) interfere with ongoing spontaneous or task-related activity and thus affect behavioral performance, or (iii) modulate the level and timing of neuronal activity. In contrast, "offline" approaches can be utilized to either (iv) inhibit or (v) facilitate local neuronal excitability via synaptic plasticity, assessing its subsequent effects on neural activity and behavior. This workshop consist of lectures and discussions, as well as hands-on sessions (if possible, depending on the number of attendees) to cover the theoretical background on stimulation techniques, physiological mechanisms, and experimental paradigms, but also provide some first practical experience.</p>			
ausgefüllt von		Dr. Til Ole Bergmann			
ausgefüllt am		10.05.2019			

