

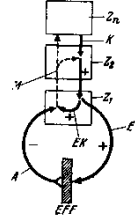







Lecture: Fundamentals of Sensorimotor Integration, 2017

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Monday, 14.15 - 16.00, N12 Biology

Date	Theme	
April, 24	Definition of Sensorimotor Integration	
May, 08		Learning , Simple Examples
May, 15	Orienting I: Electric fields and Vortices	
May, 22		Orienting II: Bat
May, 29	Visual System: Functional Anatomy	
June, 19	Visual System: Visual Cortex and beyond	
June, 26		Eye Movements I -- Gaze Stabilization --
July, 03	Eye Movements II -- Gaze Guidance --	
July, 10	Motor Learning -- Adaptation --	
July, 17	Reafference Principle -- Multiple Approaches --	
July, 24	Tutorial	
Tba	Exam	

Commentary: The lecture is designed for students of the Graduate Training Center Neuroscience as well as students of **Bioinformatics** and **Biology**. With the help of specific examples, the impact of motor responses on sensory processing will be highlighted. The field of the lecture covers simple reactions of the marine snail *Aplysia* to the complex eye movement pattern reflecting higher cognitive abilities of the human central nervous system. At the end of each lecture, possible questions of the final exam will be given.