



# NEUROSCIENCE SUMMER SCHOOL

22.-24. September 2021

**Compact Course III: 24.09.2021 9 a.m. – 1 p.m.**

## **Introduction to Magnetic Resonance Imaging (MRI) for neuro-imaging**

### Course Description:

The first half of the course will give a short overview over the physics behind magnetic resonance imaging such as contrast mechanisms and sequence parameters (no previous knowledge required).

Secondly, we will introduce the basics of functional MRI followed by an overview over different fMRI-sequences and their working principles. An interactive discussion of specific use cases will conclude the course.

If the situation allows, we will conduct a tour through the 7T-scanner facilities in the afternoon session (11 a.m. – 1 p.m.).

### Instructors:

- Dr.-Ing. Hendrik Mattern (*Institute of Physics, Medical Faculty, OVGU*)
- M.Sc. Sula Spiegel (*Institute of Biomedical Magnetic Resonance Imaging*)

Gefördert durch