



Sonderforschungsbereich/Transregio 31 "Das aktive Gehör"

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# EINLADUNG

zum Vortrag im Rahmen des Seminars des SFB/TRR 31

**Freitag, 22. Januar 2010, 14 Uhr c.t.**

im Raum G26.1 – 010  
Rechenzentrum der Universität Magdeburg  
und  
im Raum W2 1-143, Universität Oldenburg  
(per Videoübertragung)

**"Investigating the neural basis  
of human audio-visual object perception"**

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In most everyday situations, we are surrounded by a large number of natural and common objects. In order to act effectively in such situations, we can employ several of our senses in parallel. We usually perceive the respective objects as integrated "wholes", although the information provided in the different sensory modalities is processed in spatially distributed networks of highly specialized brain regions. To identify those regions of the human brain that are involved in crossmodal processing and integration, we employed non-invasive functional magnetic resonance imaging. While aiming at a detailed characterization of the activated multisensory (auditory, visual) and sensorimotor brain networks, we were particularly interested in questions regarding the functional specificity of the involved regions, the degree of connectivity between them, and the neural plasticity within the brain networks they constitute.