Sonderforschungsbereich/Transregio 31
“Das aktive Gehör”

EINLADUNG

zum Vortrag im Rahmen des Seminars des SFB/TRR 31

Freitag, 23. Januar 2015, 14 Uhr c.t.

im Raum H28 / R 2.31 des Med. Campus Magdeburg
und Raum W2 1-143 der Universität Oldenburg
(per Videoübertragung)

"Processing Language and Music through a Cochlear Implant: Evidence from Event-Related Potentials”

Anja Hahne

Universitätsklinikum Dresden

Comprehending language via a cochlear implant differs largely from normal hearing and thus poses a remarkable challenge to the brain. Clinical evidence shows that the rehabilitation process as well as the ultimate performance shows a great variability across patients. The knowledge of the neuro-cognitive processes underlying auditory comprehension in cochlear implant patients is rather scarce. Using language-related ERP components we studied word and sentence comprehension as well as the processing of musical semantics in adult CI patients and matched controls. Patients systematically varied with regard to their hearing anamnesis (pre- or postlingually deafened; bilateral or single-sided deafness) and were studied at different stages in the rehabilitation process. Results support the idea that the acoustic influence before the implantation is most crucial for the processing of language and music.