



EINLADUNG

zum Vortrag im Rahmen des Seminars des SFB/TRR 31

Freitag, 24. Januar 2014, 14 Uhr c.t.

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

“How is human auditory perception linked to neural oscillations?”

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The human ability to continuously track dynamic environmental stimuli, for example speech and music, is proposed to profit from “entrainment” of neural oscillations, which involves phase reorganization such that “optimal” phase comes into line with temporally expected critical events, resulting in improved processing. I will present electroencephalography (EEG) data from our group that demonstrates 1) entrainment of slow neural oscillations by auditory stimuli with temporal structure mimicking natural sounds, and 2) modulation of near-threshold auditory target detection by the instantaneous phase of the entrained neural oscillations at the time of target presentation. I will contrast these data with a study of spontaneous (non-entrained) neural oscillations, which seem to interact in more complex ways to determine human auditory perception.