



EINLADUNG

zum Vortrag im Rahmen des Seminars des SFB/TRR 31

Freitag, 11. Dezember 2015, 11.00 Uhr c.t.

im Raum W30 0-33/34 der Universität Oldenburg (NeSSy)
und Raum H28 / R 2.31 des Med. Campus Magdeburg (per Videoübertragung)

***"Continuous speech recognition from
electrocorticography"***

Tanja Schultz/Christian Herff

Universität Bremen

Continuous speech production is a highly complex process involving many parts of the human brain. The fundamental building blocks of brain activity that support this process are still not fully understood. We show for the first time that continuously spoken speech can be represented in the brain as a sequence of phones that allow for the composition and decoding of spoken words. These phones can be modeled from intracranial electrocorticographic recordings and give detailed insights into timings and locations of neural processes associated with the continuous production of speech. These new findings allow us to combine the phone-based representations with language information applying automatic speech recognition technology to reconstruct the words in unseen spoken phrases solely based on neural signals.