



EINLADUNG

zum Vortrag im Rahmen des Seminars des SFB/TRR 31

Freitag, 29. Mai 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)

***“Why rapid adaptive processes are essential for
listening in realistic auditory environments”***

Shihab Shamma

University of Maryland and L'université Paris Descartes

Humans can attend to one of multiple sounds, and follow it selectively over time. The neural underpinnings of this perceptual feat are the object of extensive investigations. I will review the fundamentals of sound representation in the auditory cortex. I will then explain how source segregation depends primarily on the rapid adaptation in auditory cortical responses that can track the temporally coherent responses induced by simultaneous sources. I will then review recent results in support of these ideas, and then demonstrate algorithms that can segregate sources with no prior information or training and that are inspired by auditory cortical mechanisms.