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# EINLADUNG

zum Vortrag im Rahmen des Seminars des SFB/TRR 31

**Freitag, 25. Januar 2013, 14 Uhr c.t.**

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

***“Extracting and representing regularities in sound sequences”***

**Maria Chait**

UCL Ear Institute

The notion that auditory scene analysis is based on predictive processing has recently been receiving considerable attention. According to this view, the auditory system continuously seeks to make sense of incoming information by searching for regularities within the arriving acoustic signal and forming predictive models concerning future input. The formation of such models allows the system to adapt to environment statistics, conserve resources, and optimize behaviour. I will present a series of psychophysics and MEG experiments which investigate listeners' sensitivity to different forms of regularity in the context of auditory scene analysis tasks (e.g. detecting changes in the pattern of on-going sequences, segregating concurrent sequences, etc.) with the purpose of shedding light on the kinds of stimulus regularities to which we are very sensitive vs. those that are less perceptually salient.