

Universität Regensburg · D-93040 Regensburg

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**Prof. Dr. Mark W. Greenlee**  
**Lehrstuhl für Allgem. Experimentelle Psychologie**  
**und Methodenlehre**

Telefon +49 941 943-3281

Telefax +49 941 943-3233

Sekretariat:

Telefon +49 941 943-2402

Telefax +49 941 943-3233

Universitätsstraße 31

D-93053 Regensburg

mark.greenlee@psychologie.uni-regensburg.de  
www.uni-regensburg.de

## Vortragseinladung

**Montag, den 25.06.2018, 14 ct**

**Thema: "High-Level Vision in a Structured World"**

**Ort: Universität Regensburg, VG 0.05 (Vielberth-Gebäude)**

**Referent: Dr. Daniel Kaiser, Freie Universität Berlin, Arbeitsbereich Neural Dynamics of Visual Cognition**



In natural environments, objects do not appear in random locations, but are meaningfully distributed. For example, when we think about our living rooms, their object content follows a predictable positional structure: a sofa is facing the TV, a table is in between the two, a lamp hangs from the ceiling, whereas carpets lie on the floor. Discussing results from behavioral experiments, fMRI studies and EEG recordings, I will show that the visual system is tuned to such regularity structures. Interestingly, this tuning can be observed across multiple stages of the visual hierarchy, from the coding of individual objects to the integration of information across objects and even in the coding of complex scenes. Based on these findings, I will argue that perceptual processing of objects can be understood as a function of real-life demands, where scene structure plays an important role for efficient natural vision.