

**RHEINISCHE FRIEDRICH-WILHELMS-UNIVERSITÄT BONN**  
**Fachgruppe Biologie**

**Zoologisches Forschungsmuseum Alexander Koenig**

## **Biologisches Kolloquium**

**Sommersemester 2019**

Montag, den 27. 5. 2019, 17 Uhr c.t.

im Hörsaal Zoologie, Poppelsdorfer Schloss

# **Dr. Holger Görlitz**

MPI für Ornithologie, Seewiesen

***“Bat echolocation calls as public information:  
from neurons to predator-prey communities“***

Einladung: Prof. Dr. G. von der Emde (Institut für Zoologie)

*Abstract:*

Active sensory systems, such as echolocation, evolved for the benefit of the sender. However, as active systems constantly radiate energy into the environment, they also provide ample public information to friends and foe.

Echolocating bats move swiftly in 3D space, often in dense aggregations, using sound to interact with their environment, other bats of the same and different species, and their prey. Here, I will discuss current findings and ideas, first about how bats use echo information for imaging properties of their environment, second about echolocation calls as public information in social environments, and third about using sound for camouflage and deception in the predator-prey-system of bats and eared insects.