

Im Oberseminar

## Deformationsquantisierung

spricht am **22.01.2016 um 14 Uhr c.t.**,

im Seminarraum 00.009 (Physik Ost)

**MATTHIAS SCHÖTZ**

über das Thema:

### Introduction to Riesz spaces

I will give an introduction to (Dedekind complete) Riesz spaces, i.e. ordered real vector spaces in which all infima and suprema of finite (of all bounded) non-empty subsets exist. Topics will be some important examples (spaces of continuous / uniformly continuous functions, spaces of certain integrable functions, the real subspace of hermitian operators in a commutative von Neumann algebra), the Yosida representation theorem, the Freudenthal spectral theorem and how the spectral theorem for bounded linear operators on a Hilbert space can be proven with Riesz-space technology.

gez. Stefan Waldmann