

Im Oberseminar

## Deformationsquantisierung

spricht am **14. 7. 2017 um 14 Uhr c.t.**,

im Seminarraum 00.009 (Physik Ost)

**FLORIAN ULLRICH**

über das Thema:

### Rolling Maps for Real Stiefel Manifolds I

In this talk I want to examine the real Stiefel manifolds  $St_{n,k}$  rolling on an affine tangent space without slipping or twisting. Correspondingly, this talk firstly summarizes fundamental constructions and essential techniques. Hence, presenting a brief overview of  $St_{n,k}$  and its indispensable properties will be one of the crucial points, especially verifying the structure of homogeneous spaces. In conclusion, I want to introduce an extrinsic formalism for describing certain rolling motions of smooth manifolds. It was firstly established by Richard W. Sharpe in 1997. Next week's talk continues these considerations by various applications in Riemannian geometry.

gez. Stefan Waldmann