

Announcement

## Seminar on Deformation Quantization

**26. 5. 2023 at 2pm CEST**

Seminarroom SE 30

KNUT HÜPER (JMU) AND FÁTIMA SILVA LEITE (UNIVERSITY OF  
COIMBRA)

A unified framework for extremal curves on Stiefel manifolds and other  
homogeneous spaces

We present a smooth one-parameter family of submersion (pseudo-)Riemannian metrics on Stiefel manifolds. We discuss their geodesics and the corresponding variational problems together with closed form solutions of the associated Euler-Lagrange equations. We continue with the closed relationship with sub-Riemannian problems on Lie groups, in particular  $SO_n$ . We close with an outlook and recent further work.

Invited by Stefan Waldmann