

Ruprecht-Karls-Universität Heidelberg  
Mathematisches Institut  
Prof. Dr. Anna Wienhard  
Prof. Dr. Peter Albers



UNIVERSITÄT  
HEIDELBERG  
ZUKUNFT  
SEIT 1386

Mathematisches Institut  
Mathematikon  
Im Neuenheimer Feld 205  
69120 Heidelberg  
Tel: 06221 / 54-14206  
[wienhard@mathi.uni-heidelberg.de](mailto:wienhard@mathi.uni-heidelberg.de)

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## RTG Kolloquium

"A min-max characterization of Zoll metrics"

**Dr. Stefan Suhr, Ruhr-Universität Bochum**

*Abstract:* From the Morse theoretic point of view Zoll metrics are rather peculiar. All critical sets of the energy on the loop space are nondegenerate critical manifolds diffeomorphic to the unit tangent bundle. This especially implies that min-max values associated to certain homology classes coincide. In my talk I will explain that the coincidence of these min-max values characterises Zoll metrics in any dimension. A special focus will lie on the case of the 2-sphere. This is work in collaboration with Marco Mazzucchelli (ENS Lyon).

Dienstag, den 30. Oktober 2018 um 13.30 Uhr, SR C, EG, INF 205