



**Sommersemester 2021**

**Oberseminar  
Geometrische Analysis, Differentialgeometrie und Relativitätstheorie**

Am Donnerstag, den **15.07.2021** spricht um **14:00** per Videoübertragung

**Prof. Dr. Andreas Bernig**  
( Goethe Universität Frankfurt )

über das Thema

**The Weyl principle in pseudo-riemannian geometry and beyond**

The classical Weyl principle states that the coefficients of the volume of a tube around a compact submanifold in euclidean space are invariants of the intrinsic metric. Using the language of valuations and curvature measures on manifolds, they give rise to the intrinsic volumes and Lipschitz-Killing curvature measures. In a recent joint work with D.Faifman (Tel Aviv) and G. Solanes (Barcelona) we extend the theory to pseudo-riemannian manifolds and more generally to signature changing metrics, where we prove a generalization of the Weyl principle.

**Hierzu wird herzlich eingeladen. Bei Interesse bitte per E-Mail an [angelika.spoerer-schmidle@uni-tuebingen.de](mailto:angelika.spoerer-schmidle@uni-tuebingen.de) wenden, um den Link zur Videoübertragung zu erhalten.**

Hierzu wird herzlich eingeladen.

C. Cederbaum, G. Huisken, K. Kröncke