



Leibniz  
Universität  
Hannover

# Oberseminar Institut für Algebraische Geometrie

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## Sasaki-Einstein metrics on spheres

It is a classical problem in geometry to construct interesting metrics on spheres. Sasaki-Einstein metrics are the analogous of Kähler-Einstein metrics for odd dimensional real manifolds. I will report on a joint work with Yuchen Liu and Taro Sano in which we construct infinitely many Sasaki-Einstein metrics on odd-dimensional spheres that bound parallelizable manifolds, proving in this way conjectures of Boyer-Galicki-Kollár and Collins-Székelyhidi. The construction is based on showing the K-stability of certain Fano weighted orbifold hypersurfaces.

**Donnerstag, 29.06.2023, 16:30-17:30, Raum F142.**

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**Alle Interessierten sind herzlich eingeladen.**