



Leibniz
Universität
Hannover

Oberseminar
Institut für Algebraische Geometrie

Hsueh-Yung Lin
(National Taiwan University)

**Motivic invariants of birational maps and
Cremona groups.**

(Joint with E. Shinder and S. Zimmermann) In characteristic zero, birational maps of projective varieties factorize through a sequence of blow-ups and blow-downs along smooth centers. We study to which extent these factorization centers are unique, and construct motivic invariants of birational maps which account for the non-uniqueness of centers. For surfaces over a perfect field, we prove the uniqueness of centers in the strongest possible sense. In higher dimension, the centers fail to be unique. Relying on the non-uniqueness, we provide new explanations of the non-simplicity of Cremona groups.

Donnerstag , 28.10.2021
16:30 - 17:30, online meeting
Leibniz Universität Hannover
Alle Interessierten sind herzlich eingeladen.