



Leibniz
Universität
Hannover

Oberseminar

Institut für Algebraische Geometrie

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Characterizing varieties via their groups of birational transformations

We look at the following question: Let X and Y be varieties such that $\text{Bir}(X)$ is isomorphic to $\text{Bir}(Y)$ as an abstract group, must X and Y be birational? We will see that the answer is yes - up to an automorphism of the base-field - if X is a ruled variety. In particular, the group structure of $\text{Bir}(X)$ determines whether X is rational. This is joint work with L. Esser, N. Chen, A. Regeta, and I. van Santen.

Donnerstag, 04.06.2026, 16:30 - 17:30, F142.

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Alle Interessierten sind herzlich eingeladen.