

Institut f. Geometrie

Geometry Seminar

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Seminarraum 2, Kopernikusgasse 24/IV

The algebraic K-theory of algebraic tori via equivariant homotopy theory

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There is an equivalence of categories between algebraic tori over a field F and topological tori with an action of the absolute Galois group of F. We prove that the algebraic K-theory of an algebraic torus coincides with the equivariant homology of the associated topological torus with respect to the homology theory represented by the K-theory of the base field F and its field extensions. This is joint work in progress with Shachar Carmeli, Qingyuan Bai and Florian Riedel.

(a video on that topic is available from https://youtu.be/F3w7tfBF6HA?si=BA6KyXkdtgSY1BvT)

Jan Jendrysiak