Course Announcement ST 2026

AKAZie A (Elliptic Curves)
Prof. Dr. Frederik Witt

Elliptic curves lie at the intersection of algebraic geometry and number theory. Geometrically, they are plane curves of genus one; from a number-theoretic perspective, they are the solutions of cubic equations over an arbitrary field. They play a central role in both theoretical and practical applications (Fermat's Last Theorem, elliptic curve cryptography).

The lecture provides an introduction to the algebro-geometric theory of curves, before we turn to specific aspects of elliptic curves. At the end, I would like to briefly touch on the role of elliptic curves in the proof of Fermat's Last Theorem.

Further information on ILIAS:

Universität Stuttgart
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