

BERNOULLIS TAFELRUNDE

MATH STUDENT AND PHD SEMINAR

Monday, 02 December 2024, 12:15 - 13:00
Seminar Room 05.002, Spiegelgasse 5

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Bernoulli Considers Central Simple Algebras and the Brauer Group

ABSTRACT

Over any ground field k , central simple algebras (or CSAs for short) over k are a family of k -algebras whose Morita-equivalence classes define the so-called Brauer group $\text{Br}(k)$ of k . In this talk we will survey some of the theory of central simple algebras such as the example of quaternionic algebras, the Wedderburn-Artin Theorem, the classification of central simple algebras over fields like the reals, and will mention the algebraic geometric interpretation of central simple algebras as Severi-Brauer varieties.