Algebra
Seminar

Embeddings of maximal tori in classical groups and explicit BrauerManin obstruction

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Abstract: This is a joint work with Parimala and TingYu Lee. Embeddings of maximal tori into classical groups over global fields of characteristic $\neq 2$ are the subject matter of several recent papers (for instance by Prasad and Rapinchuk, Fiori, Lee), with special attention to the Hasse principle. The aim of this talk is to describe a complete criterion for the Hasse principle to hold, and to give necessary and sufficient conditions for a classical group to contain a maximal torus of a given type. The embedding problem will be described in terms of embeddings of étale algebras with involution into central simple algebras with involution.

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