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Raman Parimala* (parimala@mathcs.emory.edu), Department of Mathematics & Computer Science, Emory University, Atlanta, GA, **Eva Bayer-Fluckiger**, EPFL, Lausanne, Switzerland, and **Ting-Yu Lee**, EPFL, Lausanne, Switzerland. *Explicit obstructions to embedding maximal tori in classical groups.*

Embedding maximal tori into classical groups is equivalent to embedding étale algebras with involution into central simple algebras with involution. We give a concrete description of the obstruction to the Hasse principle for the above embedding problem over global fields. (Joint with E. Bayer-Fluckiger and Ting-Yu Lee). (Received January 31, 2015)