Hasse principle for linear algebraic groups over 2-dimensional fields

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ABSTRACT:

Classical theorems on Hasse principle for quadratic forms and Brauer groups have analogues for function fields of curves over complete discrete valued fields. This analogy is stronger for function fields of *p*-adic curves in the context of Hasse principle for homogeneous spaces under connected linear algebraic groups. We discuss some conjectures and recent progress in this direction.