

Kato's Hasse principle, following Jannsen and Berkovich

Thuillier Amaury
(Université Claude Bernard)

Abstract : In 1985, K. Kato described a conjectural generalization to higher dimensional arithmetic schemes of the classical Hasse local-global principle for the Brauer group of a global field.

A few years ago, U. Jannsen gave a proof of Kato conjectures assuming resolution of singularities. Soon afterwards, M. Kerz and S. Saito obtained an unconditional proof for coefficients prime to the residue characteristics.

I will explain how ideas and techniques coming from Berkovich geometry lead to a simple proof of the full conjectures, following Jannsen's strategy.