Higher-dimensional Tate-Shafarevich groups

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Abstract: This talk will examine local-global principles for objects defined over fields of the form $K(X)$ where $K$ is a complete discretely valued field and $X/K$ is a curve. In particular, we will examine torsors for linear algebraic groups and the measure the failure/success of local-global principles defined with respect to a variety of different types of “local versions” of our fields. This is joint work with David Harbater and Julia Hartmann.

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