

# On Voevodsky's reconstruction theorem

**Sebastian Wolf**  
(Uni Regensburg)

Abstract: In 1990, Voevodsky proved a conjecture of Grothendieck, that morphisms of normal schemes of finite type over the rational numbers can be reconstructed from the induced morphism of étale topoi. The goal of this talk is to give an outline of Voevodsky's proof and explain a generalization of his result: Taking the étale topos is a fully faithful functor from finite type schemes over any finitely generated field to topoi over such a field after inverting universal homeomorphisms. This is joint work with Magnus Carlson and Peter Haine.