

# Some new constructions of Shafarevich's pairing

Tong Jilong  
(Université de Bordeaux I)

**Abstract :** Let  $K$  be a local field with algebraically closed residue field, and  $A$  be an abelian variety. The Shafarevich pairing gives a perfect duality between  $H^1(K, A)$ , the set of isomorphic classes of torsors under  $A$  over  $K$ , and certain fundamental group of the dual of  $A$ . The classical construction of Shafarevich pairing is purely cohomological. In this talk, based on a joint work with Bertapelle, I will try to explain some new constructions of Shafarevich pairing by using Picard functors, which are more geometry in nature.