

A bridge between commutative and noncommutative motives, and algebraic geometry

Thursday, October 17, 2013 3:50 PM (45 minutes)

In this talk, I will recall how one can build a bridge between noncommutative and commutative Chow motives. Crossing this bridge allows us to understand geometrical and birational properties of smooth projective varieties by considering their derived categories of coherent sheaves. In particular, one can reconstruct intermediate Jacobians and state categorical Torelli-type Theorems for some complex variety. This results are obtained in a joint work with G.Tabuada.

Mots Clés / Keywords

semiorthogonal decompositions; intermediate Jacobians; exceptional objects; Chow motives; noncommutative motives

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