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Motives and Noncommutative Geometry

Since A. Grothendieck proposed the first definition of a "motif", in the early '60s, this notion has undergone an interesting development and enrichment. Very recently, some applications of a new theory of noncommutative motives to number-theory and quantum field theory have being found or about to be developed, with the support of techniques supplied by Noncommutative Geometry and Operator Algebras. This talk will overview the central topic of motives in algebraic geometry and will outline some of the recent applications of the new notion of "endomotive".