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The Bost-Connes Functor

Alain Connes has proposed solving Hilbert's 12th problem by constructing points on certain 'non-commutative varieties'. Such a variety is given by a C*-dynamical system, the Bost-Connes system, made out of the adeles of a number field. The talk will discuss the construction, along with recent work by the presenter, M. Laca and S. Neshveyev which turns this construction into a functor from algebraic number fields to C*-dynamical systems.