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A topological/noncommutative approach to Grothendieck, Voevodsky, and Tates conjectures.

Abstract:

Grothendiecks standard conjectures, Voevodskys nilpotence conjecture, and Tates conjecture, play a key central role in algebraic geometry. Notwithstanding the effort of several generations of mathematicians, the proofs of these celebrated conjectures remain elusive. The aim of this talk, prepared for a broad audience, is to give an overview of a recent topological/noncommutative approach which has led to the proof of the aforementioned important conjectures in several new cases.

James McKernan

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