

The toric regulator

Monday, October 14, 2019 11:00 AM (1 hour)

I will present a map - The toric regulator, from motivic cohomology of algebraic varieties over p -adic fields with “totally degenerate reduction”, e.g., p -adically uniformized varieties, to “toric intermediate Jacobians” which are quotients of algebraic toruses by a discrete subgroup. The toric regulator recovers part of the ℓ -adic étale regulator map for every prime ℓ , and its logarithm recovers part of the log-syntomic regulator. I expect the toric regulator to be the home of “refined” Beilinson conjectures and I will present some evidence for this claim. This is joint work with Wayne Raskind from Wayne State university.

Presenter: (BEN-GURION UNIVERSITY), Amnon Besser