

# Topology Seminar

**Stephen McKean**

of Harvard University will be speaking on

## Motivic Euler characteristics and power structures

on March 11 at 4:30 in  
MIT Room 2-131

*There is a quadratic form-valued version of the compactly supported Euler characteristic coming from motivic homotopy. A feature of this Euler characteristic is that it descends to a ring homomorphism out of the Grothendieck ring of varieties. In characteristic 0, this Euler characteristic was constructed by Rondigs and later Arcila-May-Bethea-Opie-Wickelgren-Zakharevich, who used Bittner's blow up presentation of  $K_0(\text{Var})$ . In characteristic not 2, Azourigave each characterization in terms of the six functor formalism. I will discuss a hybrid of the two presentations, and conclude with a conjecture relating these two power structures. This is joint work with...*

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