

Topology Seminar

Alexander Efimov

of Max Planck Institute will be speaking on

Localizing motives and corepresentability of TR and TC

on January 29 at 4:30 in
MIT Room 2-131

I will explain some of my recent results on the category of localizing motives – the target of the universal localizing invariant commuting with filtered colimits. The main surprising result about this category is that it is rigid as a symmetric monoidal category (in the sense of Gaitsgory and Rozenblyum).

As an application of the proof of rigidity, we will deduce that the functors TR (topological restriction) and TC (topological cyclic homology) are corepresentable in this category, if we restrict to connective E_1 – rings.

If time permits, I will explain how rigidity of Mot^{loc} allows to construct refined versions of (topological) Hochschild homology algebras than the usual variants of $(T)HH$.

For information, write: ishanl@mit.edu