Topology Seminar

David Gepner

of Universität Regensburg and MIT will be speaking on

The A^1- localization of noncommutative motives and homotopy K-theory

on March 5 at 4:30 in
MIT Room 2-131

The motivic perspective on algebraic K-theory is a useful means of constructing trace maps as well as other additive or localizing invariants which are often easier to compute. For instance, a homotopy invariant form of K-theory is obtained by forming the A^1-localization of noncommutative motives before passing to homotopy groups. In order to relate this to the usual notion of homotopy K-theory it is useful to have a direct construction of this localization, and this involves understanding the additive group A^1 in the noncommutative context. This is joint work with Andrew Blumberg and Goncalo Tabuada.