

Topology Seminar

Bertrand Guillou

of University of Kentucky will be speaking on

The η -local motivic sphere

on October 27 at 4:30 in
MIT Room 2-131

The motivic Hopf map η is not nilpotent in the motivic stable homotopy groups of spheres, contrary to the situation in the homotopy of spaces. In the motivic Adams spectral sequence computing the motivic stable homotopy groups, there result a number of h_1 -towers. The motivic Adams spectral sequence contains strictly more information than the classical case and is therefore quite complicated, but the h_1 -local part is understood and computes the η -localization of the motivic sphere. I will discuss joint work with Dan Isaksen on the η -local motivic sphere and related topics.