Topology Seminar

Srinikanth Iyengar

of University of Nebraska will be speaking on

Colocalizing subcategories of the stable module category of (possibly infinite dimensional) modules over a finite group

on November 15 at 4:30 in MIT Room 2-131 I will describe recent work with Dave Benson and Henning Krause wherein we classify colocalizing subcategories of StMod(kG), for a finite group G, in the spirit of earlier work by Hopkins, Neeman, and Benson, Carlson, and Rickard on thick subcategories and localizing subcategories in various contexts. A central result in our work is a criteria for the vanishing of a function object, $Hom_k(M, N)$, in StMod(kG), in terms of geometric data (to be precise: support and cosupport) associated to M and N, via local cohomology and completion functors on the stable module category.