Topology Seminar

Hakon Bergsaker

of University of Bergen and MIT will be speaking on

Towards TC(MU)

on March 10 at 4:30 in
MIT Room 2-131

Given a ring spectrum R, there is an associated algebraic K-theory spectrum K(R). In general K(R) is very hard to compute; one method for approaching it is to use the cyclotomic trace map to topological cyclic homology, TC(R). This map turns out to be a good approximation in many cases, and TC(R) can be calculated provided one has a good grasp on the various cyclic fixed points of the topological Hochschild homology spectrum, THH(R).

In this talk I will focus on the case where R is the complex cobordism spectrum MU. In this case computing TC(MU) essentially reduces to computing the circle-Tate construction on THH(MU). I will describe and build on previous homological computations to study the Adams spectral sequence of the circle-Tate construction on THH(MU). This is work in progress.