

Massachusetts Institute of Technology
Department of Mathematics

**LUNCH SEMINAR FOR GRADUATE
STUDENTS**

MONDAY, DECEMBER 5, 2011
11:00 - 12:00 PM

ROOM 4-149

Mark Behrens
(MIT)

“Calculus of functors”

Abstract

I will describe what it means for a functor F from topological spaces to topological spaces to be “linear”. Basically, it means that F is a homology theory. Then I will describe what it means to be “polynomial of degree n ”, and discuss $T. Goodwillie$ ’s “Taylor series approximation” to any such functor. One of the most interesting cases is $F(X) = X$.

Followed by pizza in room 2-290