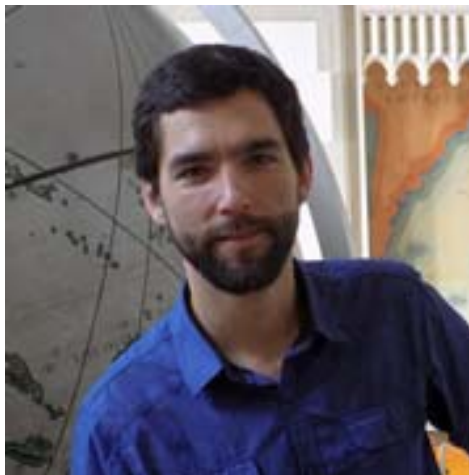


TOPOLOGY SEMINAR

Guest Speaker: Anibal Medina
University of Notre Dame



Date: Tuesday, October 9, 2018

Time: 2:30 PM

Location: 258 Hurley Hall

Lecture Title:

An axiomatic characterization of Steenrod cup- i products

Abstract

We present three axioms that determine up to isomorphism, and not just homotopy, the cup- i products introduced via explicit formulas by Norman Steenrod. We will review how these products generalize the Alexander-Whitney cup product on cochains and induce the Steenrod squares in cohomology. Time permitting, we will describe how the underlying combinatorics of these products also appears when defining the free omega-category generated by a simplicial set.