Topology Seminar

UNIVERSITY OF NOTRE DAME
Department of Mathematics

Speaker: **Prasit Bhattacharya**
University of Notre Dame

Thursday, September 9, 2015
10:00 am
Room: 258 Hurley Hall

Title: Higher Associativity of Moore spectra

Abstract:
Not much is known about homotopy coherent ring structures of the Moore spectrum $M_p(i)$ (the cofiber of p^i self-map on the sphere spectrum S^0), especially when $i > 1$. Stasheff developed a hierarchy of coherence for homotopy associative multiplications called A_n structures. The only known results are that $M_p(1)$ is A_{p-1} and not A_p and that $M_2(i)$ are at least A_3 for $i > 1$. In this talk, techniques will be developed to get estimates of 'higher associativity' structures on $M_p(i)$.