

Topology Seminar

Justin Thomas

of University of Notre Dame will be speaking on

Kontsevich's swiss cheese conjecture

on March 28 at 4:30 in
MIT Room 2-131

We prove a conjecture of Kontsevich which states that if A is an E_{d-1} algebra then the Hochschild cohomology object of A is the universal E_d algebra acting on A . The notion of an E_d algebra acting on an E_{d-1} algebra was defined by Kontsevich using the swiss cheese operad of Voronov. We prove a homotopical property of the swiss cheese operad from which the conjecture follows.