## **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.