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.