Topology, Arithmetic, & Dynamics Seminar

Operads with homological stability

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For a carefully constructed operad M of surfaces, Tillmann showed that algebras over M group complete to infinite loop spaces. This result relies, in part, on Harer's homological stability theorem for mapping class groups of surfaces. We will review Tillmann's result and provide a more general framework which shows that operads satisfying a certain homological stability condition detect infinite loop spaces. This is joint work with M. Basterra, I. Bobkova, K. Ponto, and U. Tillmann.

Date: **Friday, December 9, 2016**
Time: **2:30-3:20 pm**
Place: **4106 Exploratory Hall**

For special accommodations, please contact Sean Lawton via email at `slawton3@gmu.edu`.