

Midwest Topology Seminar

The ring cooperations for 2-primary tmf

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Abstract: This talk represents joint work with Kyle Ormsby, Nat Stapleton, and Vesna Stojanoska. I will describe 3 different perspective on tmf_*tmf (localized at 2). (1) the E_2 -term of the Adams spectral sequence for $tmf \wedge tmf$ decomposes as a direct sum of ext groups associated to bo-Brown-Gilter modules, (2) modulo torsion, tmf_*tmf embeds into the ring of 2-variable modular forms, and (3) modulo v_2 -torsion, tmf_*tmf embeds into a product of $TMF_0(N)_*$, for various values of N , and how they are related.

Saturday, February 28 at 4:00 PM in Lecture Center F, Room 4