

Topology Seminar

Lyuboslav Panchev

of MIT will be speaking on

On the v_1 -periodicity of the Moore space

on April 29 at 3:15 in
MIT Room 2-131

We present progress in trying to verify a long-standing conjecture by Mark Mahowald on the v_1 -periodic component of the classical Adams spectral sequence for a Moore space M . The approach we follow was proposed by John Palmieri in his work on the stable category of A -comodules. We improve on Palmieri's work by working with the endomorphism ring of M - $\text{End}(M)$ - thus resolving some of the initial difficulties of his approach and formulating a conjecture of our own that would lead to Mahowald's formulation. We further improve upon a method for calculating differentials via double filtration first used by Miller and apply it to our problem.

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