Topology Seminar

Piotr Pstragowski

of Harvard University will be speaking on

Franke's algebraicity conjecture

on November 2 at 4:30 in
MIT Room Zoom

In 1996, Jens Franke conjectured that any stable infinity-category possessing an Adams spectral sequence whose sparsity is greater than the homological dimension, admits a purely algebraic description of its homotopy category as a certain derived category. In this talk, I'll describe joint work with Irakli Patchkoria in which we prove Franke's conjecture, subsuming and improving on virtually all known algebraicity results for stable infinity-categories.

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