

Topology Seminar

Elden Elmanto

of The University of Toronto/IAS will be speaking on

The cofiber of tau and birational geometry

on February 12 at 4:30 in
MIT Room 2-131

I'll construct the motivic filtration on K theory mod tau. Over \mathbb{C} , the resulting E2 page contains unramified cohomology as studied by Colliot-Thélène and others. By reverse engineering the spectral sequence we prove some new theorems in birational geometry: the integral Hodge conjecture for several new Fano 4-folds and derived invariance of brauer groups of surfaces. I hope to advertise the possible use of Ctau-methods in birational geometry.

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