"In order for this scheme to work, we'd have to find a sure-fire flop!"

— Max Bialystock

The Trivial Notions Seminar
Proudly Announces

Why do birational Calabi-Yau threefolds have equal Hodge numbers?

A talk by

Geoffrey Smith

Abstract

In this talk I present a super high-level view of Bridgeland's proof that birational Calabi-Yau threefolds have the same Hodge numbers. His proof takes us through a couple of the areas modern algebraic geometers really care about—in particular, he relates flops on threefolds (a minimal model program notion) to a certain transformation on the derived category. We will explain all this, and hopefully convey some of the beauty of Bridgeland's proof, in an hour.

Friday, April 5$^{\text{th}}$, at 1:00 pm
Science Center 530