

ALGEBRAIC GEOMETRY AND COMMUTATIVE ALGEBRA SEMINAR

Speaker: Francois Greer
Michigan State University



Date: Thursday, February 15, 2024

Time: 3:30 PM

Location: 258 Hurley Bldg

Zoom URL: NA

Lecture Title:
Compactifying special cycles

Abstract

A classical theorem of Borchers and Zhang states that the cycle classes of Hodge loci in a moduli space of K3-type Hodge structures form the coefficients of a modular form. We investigate how well this theorem survives upon passing to a smooth compactification. As an application, we sketch a counterexample to the Severi Problem for rational surfaces.