

ALGEBRAIC GEOMETRY AND COMMUTATIVE ALGEBRA SEMINAR

Speaker: Joseph Cummings

University of Notre Dame - Dept. of ACMS

Date: Tuesday, September 27, 2022

Time: 2:30 PM

Location: 258 Hurley Hall

Zoom URL: NA

Lecture Title:

A Fano compactification of the free group character variety

Abstract

We show that a certain compactification of the free group character variety $\mathcal{X}(F_g, Sl_2(\mathbb{C}))$ is Fano. This compactification has been studied previously by Manon, and separately by Biswas, Lawton, and Ramras. Part of the proof involves the construction of a large family of integral reflexive polytopes arising from trivalent graphs of genus g . This project is joint with Chris Manon.