Pacific Institute *for the* Mathematical Sciences

PRIMA

PRIMA Summer School

Rational Curves and Moduli Spaces in Arithmetic Geometry

August 2–4, 2021 | Online

This summer school is a precursor to the Session on Arithmetic Geometry: theory and computation, to be held at the 2022 PRIMA Congress. The lecture series contain introductory components as well as problem sessions and they aim for graduate students and postdocs.

In this summer school, we cover two topics:

BRAUER CLASSES IN MODULI PROBLEMS AND ARITHMETIC
How Brauer classes arise as obstructions on moduli spaces of sheaves, and how they can be used to obstruct rational points, highlighting recent links between the two.

THEORY OF RATIONAL CURVES AND ITS ARITHMETIC APPLICATIONS
Discussion of deformation theory of rational curves and Mori's famous Bend and Break techniques as well as their applications to Geometric Manin's Conjecture.

With Speakers

Nicolas Addington
UNIVERSITY OF OREGON

Sarah Frei
RICE UNIVERSITY

Brian Lehmann
BOSTON COLLEGE

For more information and registration for this event go to:
https://www.pims.math.ca/scientific-event/210802-pssrcmsag

For information on PRIMA 2022 go to:
https://prima2022.primamath.org

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