

ACMS Graduate & Postdoc Seminar

Jordy Lopez Garcia
University of Notre Dame
Friday, Sept. 18, 2026
154 Hurley Hall
12:30 PM – 1:30 PM

Reality in Bisecants of Twisted Cubic Curves

In algebraic geometry, it is known that a general pair of twisted cubic curves in complex projective space has ten common secant lines. We use computational tools to investigate a novel question in real algebraic geometry: describe the possible collections of ten common secant lines to a pair of real projective twisted cubic curves. In addition to distinguishing between real and nonreal secant lines, we introduce a refinement of this classification which takes into account the intersection points with the corresponding twisted cubic curves.

The Department of Applied and Computational
Mathematics and Statistics

Please visit acms.nd.edu to view the full list of speakers.