

Northeastern University



Mathematics Department

Geometry, Physics, and Representation Theory Seminar

Brooke Ullery

Harvard

Thursday, February 7, 2:50-3:50 pm, Lake Hall 509/511

The gonality of complete intersection curves

Abstract

The gonality of a smooth projective curve is the smallest degree of a map from the curve to the projective line. If a curve is embedded in projective space, it is natural to ask whether the gonality is related to the embedding. In my talk, I will discuss work with James Hotchkiss. Our main result is that, under mild degree hypotheses, the gonality of a complete intersection curve in projective space is computed by projection from a codimension 2 linear space, and any minimal degree branched covering of \mathbf{P}^1 arises in this way.