

Stanford Algebraic Geometry — Seminar —

A TROPICAL APPROACH TO RATIONAL CURVES ON HYPERSURFACES

ETHAN COTTERILL

MSRI / Nantes

Abstract

H. Clemens proved there are no rational curves on a general quintic surface in \mathbb{P}^3 . This is a report on work on progress with T. Bogart and E. Brugallé, in which we attempt to prove an analogous statement in tropical geometry (which, in particular, would recover Clemens' result), via the dimension-reduction floor diagram technique introduced by Brugallé and Mikhalkin.

Friday, October 9

4:00 p.m.

Room 383-N

<http://math.stanford.edu/~vakil/seminar0304/>