

Philadelphia Area Number Theory Seminar

Brett Frankel

University of Pennsylvania

Explicit Brauer-Manin for a 9-Nodal Cubic 3-Fold

Abstract: First, we will review the theory of Brauer-Manin obstructions to the Hasse principle. Shepherd-Barron classified 9-nodal cubic 3-folds and proved that the only obstruction to the Hasse principle for these 3-folds is the Brauer-Manin obstruction. Using these ideas, we provide an explicit example of a 9-nodal cubic 3-fold violating the Hasse principle. This is work in progress joint with Anastassia Etropolski and Marta Pieropan.

Thursday, April 14, 2016

2:40–4:00PM

Bryn Mawr College

Department of Mathematics

Park Science Center **328**

Tea and refreshments at 2:20PM in Park 355