

# Philadelphia Area Number Theory Seminar

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## 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