

1053-11-310

Patrick K Corn* (pcorn@mathcs.emory.edu), Department of Math and Computer Science, Emory University, 400 Dowman Dr., W402, Atlanta, GA 30322. *Brauer-Manin obstructions on K3 surfaces.*

We give examples of Brauer-Manin obstructions to the Hasse principle on K3 surfaces, with applications to the study of the Tate-Shafarevich group of the Jacobian of a genus-2 curve. (Received September 08, 2009)