## STEPHANIE CHAN, University of Michigan

Integral points on the congruent number curves

Taking the quadratic twists family of an elliptic curve, we may ask how often a curve has an integral point, and how many integral points there are on average. We will discuss some results related to the distribution of integral points in the quadratic twists family of the congruent number curve  $E_D: y^2 = x^3 - D^2x$ .