You are invited to join us for a department colloquium:

**Title:** Vojta’s Conjecture and Greatest Common Divisors, the abc Conjecture, and Dynamics

**Speaker:** Yu Yasufuku, CUNY Graduate Center Mathematics

**Date:** Wednesday, December 2, 12:15–1:05

**Location:** Kiely 283

**Abstract:** Vojta’s conjecture is a deep conjecture in Diophantine geometry. It is an attempt to make the philosophy “the geometry controls the arithmetic” precise. The actual statement is quite technical, but one can often reformulate it as a down-to-earth inequality about integers (and/or rational numbers). In this talk, I will introduce the conjecture, and then discuss some cases which have applications to properties of greatest common divisors, the abc conjecture, and algebraic dynamics.

For more information and upcoming speakers, visit [http://qc.edu/math/colloq.html](http://qc.edu/math/colloq.html). Contact chanusa@qc.cuny.edu to speak in the colloquium or to be added to the mailing list.