Philadelphia Area Number Theory Seminar

Eva Goedhart

Lebanon Valley College

Using the Hypergeometric Method to Solve Families of Thue Equations.

Abstract: After setting the eld and de ning some key terms, I will demonstrate how Thue-Siegels hypergeometric method is used by Heuberger (2006) to solve a family of relative Thue equations of the form

$$F_t(X; Y) = X^3$$
 $(t \ 1)X^2Y$ $(t + 2)XY^2$ $Y^3 = ;$

where t is an imaginary quadratic integer and $\$ is a root of unity in Q(t). If time permits, I will also discuss how this relates to my current work with Bernadette Faye and Daniel Wisniewski.

Wednesday, August 8, 2018 2:40 { 3:50 PM

Bryn Mawr College
Department of Mathematics
Park Science Center 338
Tea and refreshments at 2:20PM in Park 339