

# Philadelphia Area Number Theory Seminar

**Eva Goedhart**

Lebanon Valley College

## Ziegler's Family of Thue Equations over Imaginary Quadratic Fields: Part II

**Abstract:** Given  $t$ , an imaginary quadratic integer of large enough absolute value, Ziegler found all solutions of

$$X^3 - tX^2Y - (t + 1)XY^2 - Y^3 = \mu,$$

where  $\mu$  is a root of unity and  $X, Y$  are algebraic integers in  $\mathbb{Q}(t)$ . This week, we will delve into the proof of Ziegler's result using algebraic number theory and some complex analysis.

Wednesday, February 28, 2017

2:40 – 4:00 PM

Bryn Mawr College

Department of Mathematics

Park Science Center **328**

Tea and refreshments at 2:20PM in Park 339