

# Philadelphia Area Number Theory Seminar

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## 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

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

where  $\epsilon$  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 2:20 PM in Park 339