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

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

where ζ 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