

# Philadelphia Area Number Theory Seminar

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(Joint Work with Reese Scott)

## Number of Solutions to $a^x + b^y = c^z$

Abstract: For relatively prime integers  $a$  and  $b$  both greater than one and odd integer  $c$ , there are at most two solutions in positive integers  $(x, y, z)$  to the equation  $a^x + b^y = c^z$ . There are an infinite number of  $(a, b, c)$  giving exactly two solutions. The proof uses only elementary methods.

Thursday, / P W F N C, 2015  
2:40-4:00PM

Bryn Mawr College  
Department of Mathematics  
Park Science Center 328

Tea and refreshments at 2:20PM in Park 355