

Fall 2018 Undergraduate Seminar

Department of Mathematics



A variation on the Hilbert-Waring problem

Dr. Popescu

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Date: Tuesday, October 9

Time: 12:00-12:50 pm

Location: Room 703, Thackeray Hall

The history of the Hilbert-Waring problem dates back to Diophantus of Alexandria and his famous book *Arithmetica*. It states that given a power $k \geq 2$, every positive integer n can be written as a sum of μ_k k -powers, where μ_k depends on k ; that is, $n = x_1^k + \dots + x_{\mu_k}^k$. I will discuss a short solution on a variation of this problem. Pizza and drinks will be provided!

Dr. Roxana Popescu lived in Romania before coming to Pittsburgh in 2012. She received her PhD at the University of Pittsburgh in the summer of 2018. During her time as a graduate student at Pitt, she was an invited instructor for the Putnam Seminar and was also an instructor at the Carnegie Mellon University for the MOSP-Math Olympiad summer program.



**SPEAKER FOR
NEXT WEEK:**

Sarah Klos, Oct. 23



Organized by: Tom Everest, Derek Orr, Jeff Wheeler, Jeremiah Morgan, and Eugene Trofimov