Mathematics Department Presentation Series

BUFFALO STATE
The State University of New York

Spring

Dr. Konstantine Zelator

"Sums of Squares Whose Bases are ConsecutiveTerms of an Arithmetic Progression"

Ketchum 113
Friday, March 21, 2014
3:00 pm

The main result of this work can be stated as follows: Let p be a prime, p = 3, or p =5 or 7 (mod 12). Then the sum of the squares of any p positive integers, which are consecutive terms of an arithmetic progression; is a non-perfect square. The article that contains this result is published in www.arxiv.org (see arXiv':1311.6484 [math.GM]

After graduating from the National Technical University of Athens, Greece with a five–year degree in civil engineering, KZ (Konstantine Zelator) pursued an advanced degree in Mathematics. Five years later, he graduated with a Ph.D. in Mathematics from Brown University. His area of research is Diophantine Equations/Analysis, an area of number theory. He has also been a frequent contributor to the problem solving journal, Crux Mathematicorum. KZ has held visiting assistant professor, instructor and lecturer positions with eleven colleges and universities in the United States. Over the years he has published articles in traditional printed peer–reviewed (or refereed journals). In the last six years, he has been very active publishing a high number of papers in the open access