Department of Mathematics

Fall 2017 Colloquium Series

Three-term Arithmetic Progressions

Hans Parshall,
The Ohio State University

Thursday, October 12, 2017

BSS 204, 4:00 pm

A classic theorem of Roth asserts that large sets of integers must contain three-term arithmetic progressions. We now know a fair number of distinct proofs of this qualitative statement, using diverse techniques from Fourier analysis, graph theory, and dynamical systems. After clarifying what we mean by a large set of integers, we will survey some highlights, recent progress, and unresolved quantitative issues. This talk should be accessible to an undergraduate mathematical audience.

Hans Parshall is a Zassenhaus Assistant Professor of Mathematics at The Ohio State University and an HSU alumnus.

For a complete abstract, go to http://www.humboldt.edu/math/news-and-events/math-colloquium

We cordially invite you to the Pre-Colloquium Tea on the third floor of the BSS building at 3:30 pm on Thursday.