Combinatorics
Seminar

Maximal number of cycles in a triangle-free graph

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Abstract: A typical problem in extremal graph theory is determining the maximal number of edges in a graph that does not contain a forbidden subgraph F. For example, such questions are partially answered by the Mantel, Turan and Erdos-Stone theorems. One way to generalize those theorems would be to determine how many copies of specific subgraphs an F-free graph can have. In my talk I will discuss our recent paper with S.Tsaturian and D.Gunderson about the number of cycles in a triangle-free graphs, possible generalizations and open questions related to this problem.

Monday, March 28, 2016, 4:00 pm
Mathematics and Science Center: W301

Mathematics and Computer Science
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