

1147-05-688

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Turán problems forbidding Berge hypergraphs has recently become one of the most active areas in extremal graph theory. These problems are related to an important generalization of the Turán function introduced by Alon and Shikhelman, but are also interesting in their own right. One of the most well-known and influential results is due to Lazebnik and Verstraëte. They proved that the maximum number of edges in an n -vertex 3-uniform hypergraph with girth 5 is asymptotic to $\frac{1}{6}n^{3/2}$. By girth 5, we mean a hypergraph with no Berge cycles of length 2, 3, or 4. In addition to their asymptotic formula, Lazebnik and Verstraëte showed that for any $r \geq 3$, an n -vertex r -uniform hypergraph with girth 5 has at most $\frac{1}{r(r-1)}n^{3/2} + O(n)$ edges. For $r > 3$, it is unknown if there is a matching lower bound. In this talk, we discuss some progress on constructing r -uniform hypergraphs with girth 5 using finite fields. (Received January 28, 2019)