

Discrete Mathematics Seminar

Illinois State University

2:00–2:50 pm, October 7

Speaker: Kevin Milans, West Virginia University

Ordered Turan Numbers

An ordered hypergraph G is a hypergraph whose vertices are linearly ordered. The ordered Turan Number of an r -uniform hypergraph G is the maximum number of edges in an n -vertex r -uniform ordered graph not containing G as an ordered subgraph. We obtain the ordered Turan Numbers of tight r -uniform n -vertex paths asymptotically when $n \leq 2r - 1$ and discuss the case of longer tight paths when $r = 3$. This is joint work with Jackson Porter and John Bright.

