

Discrete Mathematics Seminar

Illinois State University

2:00–2:50 pm, February 11

Speaker: Ruth Luo, University of California San Diego

Super-pancyclic graphs

We say a hypergraph H is super-pancyclic if for every set of vertices A , there exists a Berge cycle of H whose base vertices are exactly the vertices in A . In this talk, we give necessary conditions for a hypergraph to be super-pancyclic and also prove that these conditions are sufficient in certain classes of hypergraphs. We will also discuss related problems for finding Berge cycles in hypergraphs. This is joint work with Zoltan Füredi, Misha Lavrov, Alexandr Kostochka, and Dara Zirlin.

