

A Dirac Theorem for hamiltonian hypergraphs

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Abstract

Dirac proved that every n -vertex graph with minimum degree at least $n/2$ contains a hamiltonian cycle. We prove an analogue for hypergraphs: we give exact bounds for the minimum degree of a uniform hypergraph that implies the existence of hamiltonian Berge cycles.

This is joint work with Alexandr Kostochka and Grace McCourt.