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* **Princeton Discrete Math Seminar** *

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Date: Wednesday, September 22 , 2:30 in Fine Hall 224

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Menger Theorem for infinite graphs

Abstract

We prove that given two sets of vertices, A and B, in a possibly infinite digraph, there exist a set P of disjoint $A-B$ paths, and a set S of vertices separating A from B consisting of a choice of precisely one vertex from each path in P. This settles an old conjecture of Erdős. The talk gives some history of the problem and introduces the main ideas of the proof.

This is joint work with Ron Aharoni.