

The George Washington University Combinatorics Seminar

Friday, April 18, 12:00 noon - 1:00 p.m.

Monroe Hall, Room 267
2115 G Street, N.W., Washington, D.C.

Coloring acyclic digraphs and hypergraphs

Geir Agnarsson (George Mason University)

In this talk we discuss a purely combinatorial problem that arises when trying to reduce the storage space in a genetic database, without losing certain “relation properties”. This relates to vertex coloring of the corresponding acyclic digraph where two vertices with a common ancestor receive distinct colors. Optimal such colorings have connections to hypergraph, BIBDs and finite geometries.