

COLLOQUIUM
CENTER FOR APPLIED MATHEMATICS AND SCIENCE
DEPARTMENT OF MATHEMATICS
UNIVERSITY OF WEST GEORGIA

12:00 PM, FRIDAY, JANUARY 16, 2015, BOYD 306

Speaker: Dr. V. Voloshin
Department of Mathematics
Troy University
Troy, AL

Title: Some results and open problems in hypergraph coloring

Abstract: Mixed hypergraph is a triple $H=(X,C,D)$ with vertex set X and two families of subsets C and D called C -edges and D -edges. A coloring of vertices of H is proper if every C -edge is not polychromatic, and every D -edge is not monochromatic.

We will discuss some most important results and some open problems concerning uncolorability and hypergraph perfection, including a couple of most unexpected applications.

You are invited to visit the mixed hypergraph coloring website at
<http://spectrum.troy.edu/voloshin/mh.html>

All are welcome.