Combinatorics Seminar

Wednesday, April 28, 2010

3:00 pm in Hume 331

Professor Xiaojuan Li

Urumqi Vocational University
P. R. China

Some results on path-factors in graphs

ABSTRACT

Let $A = \{G_1, G_2, ...\}$ be a family of graphs. If a graph G has a spanning subgraph H such that each component of H is in A, then H is said to be an A-factor of G. In this talk, we will focus on the path-factors, that is, each G_i in A is a path of length at least one. We will introduce some recent trends in research on the existence of path-factors in graphs and present several new results we obtained on $\{P_3, P_4\}$-factors. At the end of the talk, we will also propose some further research problems.