

MATH 480
SENIOR SEMINAR
SPRING 2009

Date: February 11th, 2009

Speaker: Madeleine Schep, Columbia College

Title: *Some practical applications of graph theory to interconnection networks*

Abstract: Interconnection networks of various types are modeled by graphs and desirable properties of the networks such as fault-tolerance or short transmission paths can be translated into corresponding graph properties. We will first discuss examples of important features of interconnection networks and the properties of graphs that affect these features. Then we will expand on an example to show how graph theory was applied to solve a concrete telecommunication network problem.