1078-94-360 Christine A. Kelley\* (ckelley2@math.unl.edu), Department of Mathematics, 203 Avery Hall, Lincoln, NE 68588. Algebraic LDPC codes based on non-commuting permutation matrices.
Over the last decade, much research has focused on the design of graph-based codes using lifts of specially chosen base graphs. In this talk we will look at using algebraic lifts of graphs for codes designed from non-commuting permutation matrices. We will discuss some new results on the properties of these codes. (Received December 13, 2011)