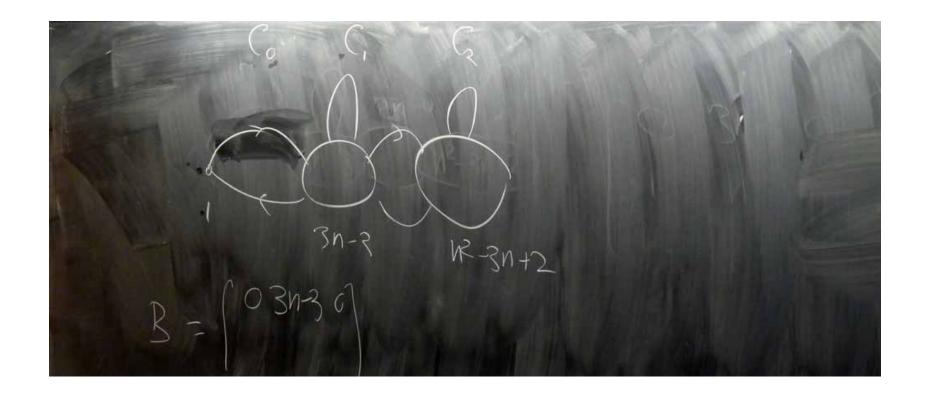
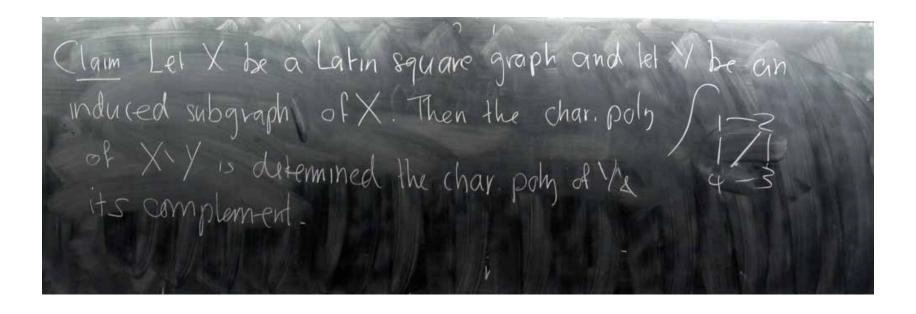
Graph Theory in Quantum Information

Lecture 4

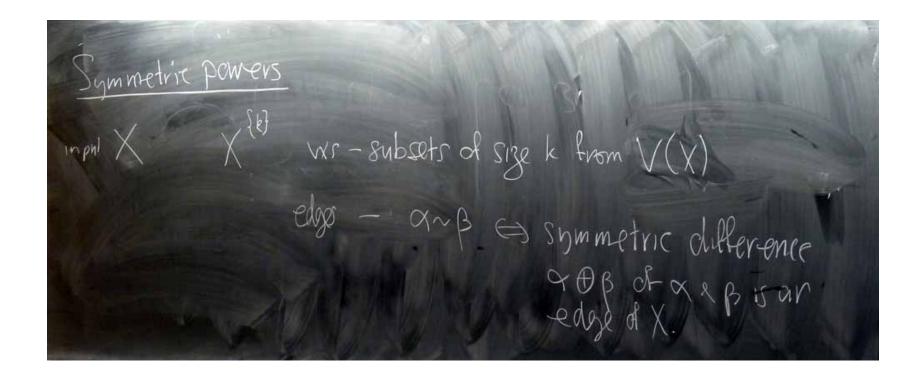
Chris Godsil, University of Waterloo

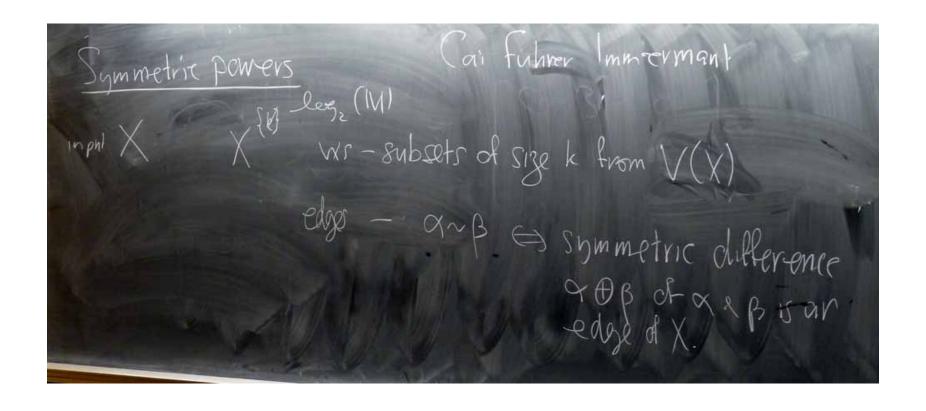
University of British Columbia, July 20, 2010





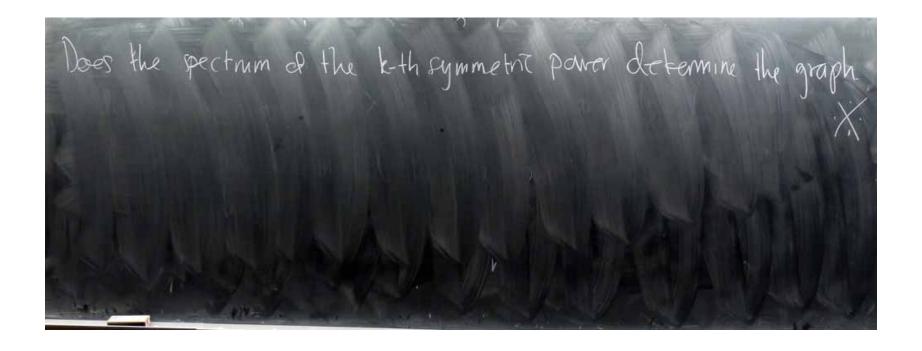
Corollary of (Xxi,j,t) only depends on whether is g are adjacent.







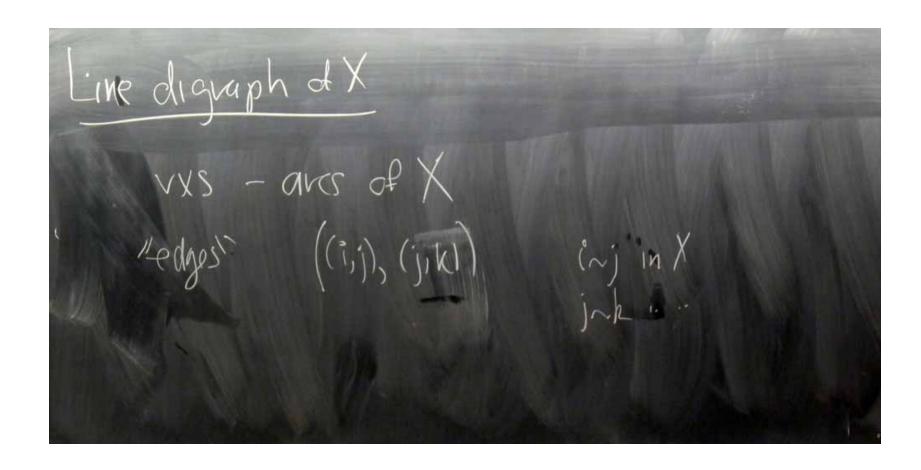


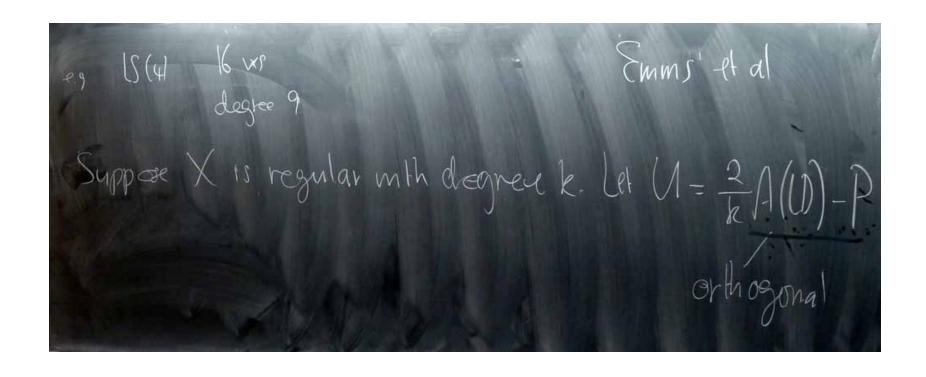


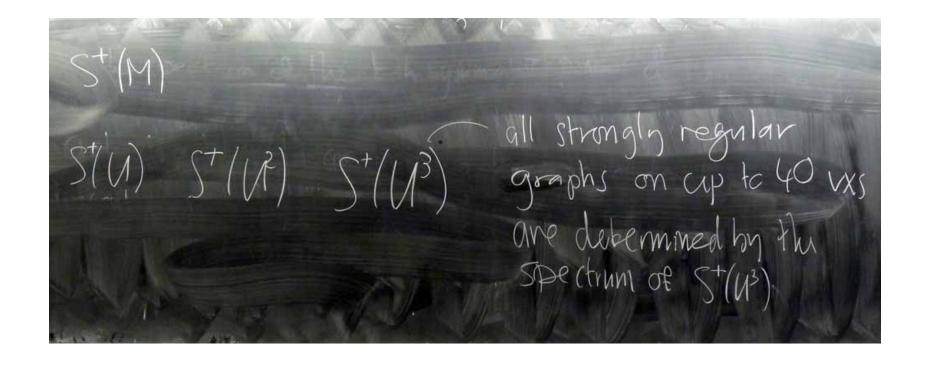
Does the spectrum of the k-th symmetric power determine the graph.

Discrete walter An are in a graph is an ordered pair of adjacent vxs

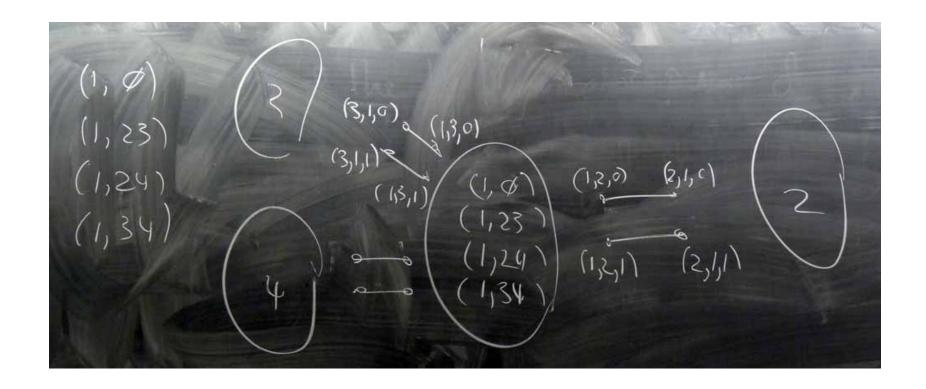
[7] (1,2) (2,1)

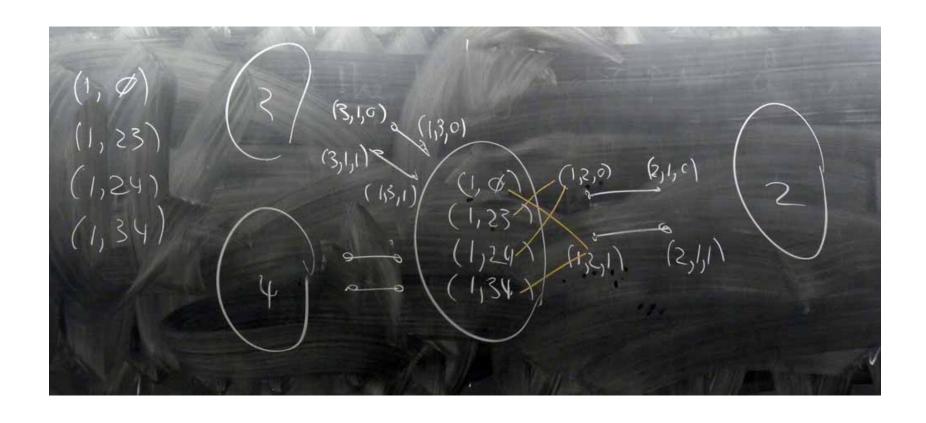






Car-Fuhrer-Immernan $VA = \begin{cases} (v, \alpha) : v \in V(x) \\ v \in A \text{ subset of the pulses of } v \in A \text{ subset of } v \in A \text{ subset$





 $(u, \alpha) \sim (v, w, i)$ v = v