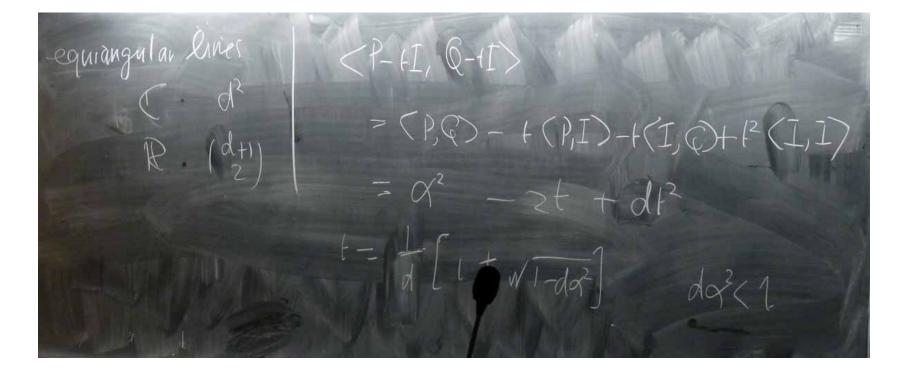
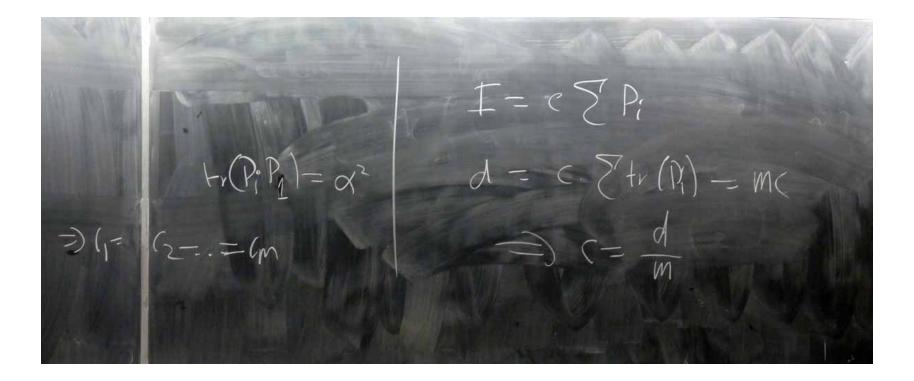
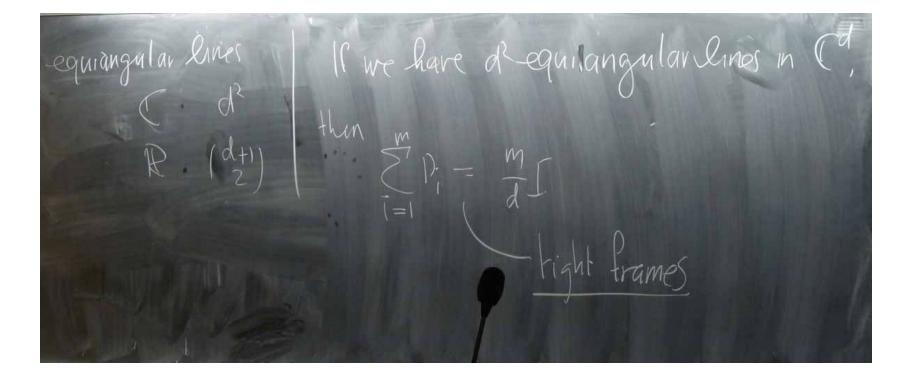
## Graph Theory in Quantum Information Lecture 2 • Chris Godsil, University of Waterloo

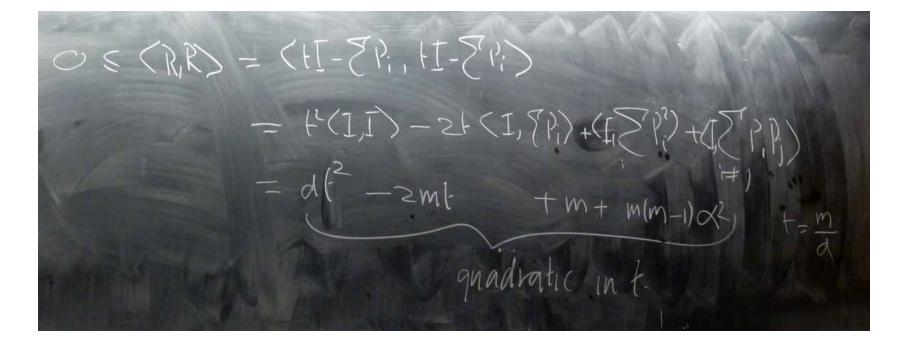
University of British Columbia, July 19, 2010



Take trace: I= Zer Pi  $1 - c_1 \alpha^{2+} + c_m \alpha^{2} + (1 - \alpha^{2}) G$  $P_1 = \sum_{i=1}^{m} c_i P_i P_1$  $\frac{1}{1} = (c_{1+1} + c_{m})q^{2} + (1 - q^{2})c_{1}$   $\frac{1}{1} = (c_{1+1} - + c_{m})q^{2} + (1 - q^{2})c_{2}$ 







equiangular lines C d<sup>2</sup> R (d+1) Z  $(R,R) - m(1 - \frac{m}{R} + (m - 1)q^2)$  $m \leq \frac{d(1-a^2)}{1-dq^2} > dq^2 < 1.$ 

