



YMC 2006



Young Mathematicians Conference 2006

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CAYLEY GRAPHS OF FINITE ABELIAN GROUPS.

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Abstract of Report Talk: Cayley graphs are a type of graph constructed from a group and a list of elements of that group. In this talk we will be focusing on directed Cayley graphs of finite abelian groups. The simple structure of these groups yields an especially interesting formulas for calculating all eigenvalues of the adjacency matrix of Cayley graphs of any finite abelian group. Using this formula I will examine the properties of cospectral graphs of finite abelian groups.

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