Seminar Announcement

Time: Monday, March 10, 2003, 4:00pm

Place: Auburn University Montgomery, Goodwyn Hall, Room 202

Speaker: Professor Lindsay Childs, University at Albany, SUNY

Title: Extensions of Cayley's Theorem

Abstract:

Cayley's Theorem is that every finite group G embeds in a permutation group. The usual proof uses the left regular embedding L from G into $Perm(G)$, the group of permutations of the set G. We consider a refinement of Cayley's Theorem, namely, given two groups G and N of the same cardinality, we seek all embeddings (one-to-one homomorphisms) b from G into $Perm(N)$ so that $b(G)$ is regular (that is, $b(G)(n) = N$ for any n in N) and normalizes $L(N)$. We will discuss results on this problem obtained by a variety of researchers, including undergraduates.

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