

BI-CO MATHEMATICS COLLOQUIUM

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*“Clausen’s construction of irreducible
representations of the symmetric group”*

Monday, March 23, 2009

Talk at 4:15 – Park 328
Tea at 3:45 – Park 355, Math Lounge

Abstract:

It is always possible to represent a finite group as a collection of matrices so that multiplication of the matrices mirrors multiplication of the original group elements. We will consider matrix representations of the symmetric group, i.e., the set of all permutations of $1, \dots, n$, and one method of constructing these. This method, due to Clausen, uses the determinant function and combinatorial structures called Young tableaux.

The presentation will be accessible to undergraduates who have taken linear algebra.

BRYN MAWR COLLEGE