

MATEMATISKA INSTITUTIONEN  
STOCKHOLMS UNIVERSITET  
Avd. Matematik

## SJÄLVSTÄNDIGT ARBETE I MATEMATIK

Onsdagen den 10 september kl. 08.30 - 09.30 presenterar Hannes Vestberg sitt arbete "Representation theory of the symmetric group" (15 högskolepoäng, grundnivå).

Handledare: Rikard Bögvad

Plats: Sal 32, hus 5, Kräftriket

Sammanfattning: In this thesis we will cover some basic properties about the symmetric group  $S_n$  and how to represent  $S_n$ . The aim of this thesis is to be able to represent the group  $S_n$  with help of *Specht Modules*. To do so we need to study the topics matrix representation, linear transformation,  $\lambda$ -tableaux, modules and group rings, which will all occur in this thesis.

Alla intresserade är välkomna!