

MATEMATISKA INSTITUTIONEN  
STOCKHOLMS UNIVERSITET  
Avd. Matematik

## SJÄLVSTÄNDIGT ARBETE I MATEMATIK

Onsdagen den 12 november kl. 14.15–15.15 presenterar Emil Sjöholm sitt arbete “Symmetric Polynomials and Tableaux” (15 högskolepoäng, grundnivå).

Handledare: Rikard Bögvad

Plats: Sal 22, hus 5, Kräftriket

Sammanfattning: This paper introduces different symmetric polynomials, ways to switch between these and how they are connected to the symmetric group. Furthermore we introduce  $\lambda$ -tableaux and Young tableaux and why these are important for the symmetric polynomials. Schur polynomials are defined in different ways and we give some nice identities regarding them. Lastly an example is given how the symmetric polynomials can be applied to representation theory.

Alla intresserade är välkomna!