

MATEMATISKA INSTITUTIONEN
STOCKHOLMS UNIVERSITET
Avd. Matematik

SJÄLVSTÄNDIGT ARBETE I MATEMATIK

Onsdagen den 25 augusti kl. 10.00–11.00 presenterar Daniel Ishak sitt arbete “Higher algebraic K -theory for the category of algebraic varieties” (30 högskolepoäng, avancerad nivå).

Handledare: Torsten Ekedahl

Plats: Sal 21, hus 5, Kräftriket

Abstract: In this paper we follow the methodology of Waldhausen and apply his construction of K -groups of Waldhausen categories to a non-Waldhausen case, namely the category of algebraic varieties. We then deduce some results such as $K_i(\mathrm{Var}_{\mathbf{k}}) = K_i(\mathrm{Sch}_{\mathbf{k}})$ and that the groups are almost always non-trivial when $\mathbf{k}$ is a finite field.

Alla intresserade är välkomna!