

MATEMATISKA INSTITUTIONEN  
STOCKHOLMS UNIVERSITET  
Avd. Matematik

## SJÄLVSTÄNDIGT ARBETE I MATEMATIK

Onsdagen den 14 januari kl. 09.00–10.00 presenterar Magnus Irie sitt arbete “The theory of dynamical system and control applied to macroeconomics” (15 högskolepoäng, grundnivå).

Handledare: Yishao Zhou

Plats: Sal 33, hus 5, Kräftriket

Sammanfattning: The basics of difference equations, mathematical control theory and the theory of dynamical systems is presented and applied to macroeconomics. The theory of dynamical systems and mathematical control theory is applied to the problem of setting the interest rate at a level that minimizes a measure of social costs. The theory of difference equations is used to briefly discuss the widely debated theory of capitalism as laid out by economist Thomas Piketty.

Alla intresserade är välkomna!