

MATEMATISKA INSTITUTIONEN
STOCKHOLMS UNIVERSITET
Avd. Matematik

SJÄLVSTÄNDIGT ARBETE I MATEMATIK

Torsdagen den 9 juni kl. 11.15–12.15 presenterar Theo Backman sitt arbete “Kontsevich’s Graph Complex and Operads of Graphs” (30 högskolepoäng, grundnivå).

Handledare: Sergei Merkulov

Plats: Sal 31 (**obs!**), hus 5, Kräftriket

Abstract: Kontsevich graph complex is a universal version of the standard deformation complex of the Lie algebra of polyvector fields. It was proved very recently by Thomas Willwacher that the zeroth cohomology of this complex is precisely the Grothendieck-Teichmüller Lie algebra.

We develop an operadic approach to this complex based on the Kapranov-Manin theorem. This gives us relatively simple definitions of all the structures involved in the Kontsevich graph complex.

Alla intresserade är välkomna!