

MATEMATISKA INSTITUTIONEN
STOCKHOLMS UNIVERSITET
Avd. Matematik

SJÄLVSTÄNDIGT ARBETE I MATEMATIK

Onsdagen den 10 september kl. 10.30 - 11.30 presenterar Alexander Beigl sitt arbete "Spectral Deformations and Singular Weyl-Titchmarsh-Kodaira Theory for Dirac Operators" (30 högskolepoäng, avancerad nivå).

Handledare: Annemarie Luger

Plats: Sal 32, hus 5, Kräftriket

Sammanfattning: The aim of the present thesis is to investigate the connection between singular Weyl-Titchmarsh-Kodaira theory and the double commutation method for one-dimensional Dirac operators. In particular, we compute the singular Weyl function of the commuted operator in terms of the data from the original operator. The results obtained are then applied to radial Dirac operators in order to show that the singular Weyl function of such an operator is a generalized Nevanlinna function.

Alla intresserade är välkomna!