

MATEMATISKA INSTITUTIONEN
STOCKHOLMS UNIVERSITET
Avd. Matematik

SJÄLVSTÄNDIGT ARBETE I MATEMATIK

Torsdagen den 16 juni kl. 13:00-14:00 presenterar Anton Fahlgren sitt arbete “Wavelets on $\mathbb{Z}_N$ ” (15 högskolepoäng, grundnivå).

Handledare: Salvador Rodriguez-Lopez

Plats: Sal 32, hus 5, Kräftriket

Sammanfattning: In this text we lay the foundations of the theory of discrete wavelets in $\mathbb{Z}_N$ and show its usefulness with practical examples. We discuss the problem of simultaneous localization in the time and frequency domains and the uncertainty principle, which motivates the construction of wavelets. We define and prove the validity of multiresolution analysis and give examples of its use in signal compression.

Alla intresserade är välkomna!