

Im Oberseminar

Deformationsquantisierung

spricht am **24.11.17 um 14 Uhr c.t.**,

im Seminarraum 00.009 (Physik Ost)

BASTIAN SEIFERT

über das Thema:

FFT algorithms based on algebraic induction

Algebraic signal processing theory gives a unified setting for various linear signal processing models. We first give an introduction to the basic concepts like algebraic signal models and corresponding Fourier transforms. Then we show how one can use the language of algebraic geometry and algebraic induction to derive fast algorithms for the Fourier transform of an algebraic signal model. As an example we show how one can derive the classical Cooley-Tukey FFT. We give sufficient conditions for a set of multivariate polynomials to give rise to fast algorithms.

gez. Knut Hüper