Graduiertenkolleg

Experimentelle und konstruktive Algebra

Experimental and
constructive
algebra

Vortrag

Freitag, 29. Juli 2016, 10:00 Uhr, Seminarraum des Lehrstuhls A für Mathematik (Hautgebäude, Raum 248)

Vignon Oussa (Bridgewater State University):
Sampling on some nilpotent Lie groups

It is a well-established fact that a band-limited function on the real line with its Fourier transform vanishing outside of a unit interval can be reconstructed by the Whittaker-Kotelnikov-Shannon sampling series from its values at the integers. A relatively novel problem in harmonic analysis consists of finding analogs of Whittaker-Kotelnikov-Shannon sampling series for non-commutative groups. In this presentation, we will present a natural extension of this classical result for a class of non-commutative nilpotent Lie groups. Explicit examples will be presented. We will also discuss the potential extension of our results to some solvable unimodular Lie groups.

Wir laden alle Interessierten herzlich ein.