



EINLADUNG

**zu einem Vortrag
im Rahmen des Graduiertenkollegs
„Experimentelle und konstruktive Algebra“**

am Donnerstag, 16.02.2017

Zeit: 13:00 Uhr

Ort: SeMath

Vortragende: Prof. Dr. Susanne Pumplün
University of Nottingham

Titel: Nonassociative algebras obtained from skew polynomial rings

Abstract: Starting from a skew polynomial ring, we define a class of unital nonassociative algebras introduced by Petit already in 1966, but still basically unknown. These algebras can be seen as canonical generalizations of (associative) central simple algebras. We present some of their most interesting features and give examples how they fit into the classical context of results on associative central simple algebras obtained over 50 years ago by Jacobson, Amitsur and Albert.

Time permitting, we will briefly discuss some of their other applications as well. These range from space-time block coding to employing them in lattice constructions generalizing Construction A.

Alle Interessenten sind herzlich eingeladen.