

Otto-von-Guericke-Universität Magdeburg
Fakultät für Mathematik

Auf Einladung des Institutes für Algebra und Geometrie spricht

Frau Prof. Dr. Alev Topuzoglu
(Sabanci University Istanbul)

über das Thema

**On the arithmetic of sequences of polynomials
over finite fields**

Ort: Otto-von-Guericke-Universität Magdeburg, Gebäude 02, Raum 20

Zeit: Dienstag, 26. November 2019, 13.00 Uhr

Zu diesem Vortrag laden wir alle Interessierten herzlich ein.

Prof. Dr. Alexander Pott

Abstract: Factorization of various types of polynomials over finite fields is a classical problem. However, the first results on the irreducible factors of permutation polynomials have been obtained only recently. In this talk we present further developments, focusing on sequences and iterations of permutation polynomials. In particular, we study number theoretic properties of irreducible factors of terms of such sequences. This is joint work with Tekgul Kalayci and Henning Stichtenoth.