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Leibniz  
Universität  
Hannover

# Oberseminar

## Zahlentheorie und Arithmetische Geometrie

**Prof. Dr. Roland Matthes**

(Leibniz FH Hannover)

### "Theta lifts and formulas of Katok-Sarnak type"

The history of theta-liftings was initiated by the work of Shimura about 40 years ago. Since then the theory grew rapidly and proved to be of great importance for number theory.

We shall consider Theta-liftings that can be realized via an integral transform with a Siegel theta series related to an indefinite quadratic form as kernel function.

In our talk we want to report about Katok-Sarnak type formulas for Fourier coefficients of automorphic forms which arise from theta lifts and their connection to singular moduli.

**Donnerstag, 05.11.2015**

**12:00 Uhr, Raum g117**

Hauptgebäude der Leibniz Universität Hannover

Alle Interessierten sind herzlich eingeladen.

Institut für Algebra, Zahlentheorie  
und Diskrete Mathematik