

**FWF**

Der Wissenschaftsfonds.



Institut f. Analysis und Computational Number Theory (Math. A)

## **Mathematisches Kolloquium**

Freitag, 3. 7. 2015, 11:00 Uhr

Kaffee: 10:30 Uhr

Vortrag: SR Statistik, Kopernikusg. 24, 3.Stock  
Kaffee: Inst. f. Geometrie, Kopernikusg. 24, 4.Stock

## **Arithmetic Harmonic Analysis**

**PROF. DR. JÖRG BRÜDERN**

(Georg-August-Universität Göttingen)

Abstract:

We discuss recent work with Trevor Wooley concerning the diophantine analysis of cubic and quartic forms. In a series of papers, the Hasse principle for systems of such forms has been established by novel harmonic analysis where Weyl sums of partial arithmetic nature play a peculiar role. The talk will survey these developments.

C.Elsholtz, R.Tichy