



DVR 0065528

Mini-Workshop on

"Explicit Problems in Diophantine Analysis and Geometry" organized by Clemens Fuchs

November 29 - 30, 2013

in frame of the ESI-Programme "Heights in Diophantine geometry, group theory and additive combinatorics"

organized by Robert Tichy, Jeffrey Vaaler, Martin Widmer, Umberto Zannier

• Friday, November 29, 2013

14:30 – 14:45 Opening

Welcome words and short presentation of the FWF-project P24574

14:45 – 15:30 **Rafael von Känel**

Modularity and integral points on moduli schemes

15:40 – 16:25 **Lajos Hajdu**

Explicit solution of exponential diophantine equations using a Hasse-type principle

16:35 - 17:20 **Roland Paulin**

The minimal degree of morphisms between curves

17:30 – 18:15 **Ákos Pintér**

Variations on a theme: the power values of power sums

• Saturday, November 30, 2013

09:00 - 09:45 **Attila Pethő**

On a key exchange protocol based on Diophantine equations

09:55 – 10:40 **Volker Ziegler**

On the number of primes factors of $\prod_{a,b\in A} (ab+1)$ for small sets A

10:50 – 11:35 **Mingxi Wang**

Curves and special points for families of abelian varieties

11:45 – 12:30 Andrej Dujella

On the existence of rational Diophantine quintuples with the property D(q)

All lectures take place in the ESI Boltzmann Lecture Hall