

# Number Theory Conference

on the occasion of Prof. Dr. Michael E. Pohst's 60th birthday

from Thursday June 9th to Saturday June 11th

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# Internet Access

We have created guest accounts with the usernames mp60\_01 to mp60\_40. Your username should be noted on the first page of this program. The password for all accounts is -mp60-. You can use the computers in rooms MA 813 (ask Oliver Voigt in MA 809 to open the room for you if it is locked), MA 686 and MA 681. The latter two should be open most of the day.

## Special Issue of JTNB

There will be a special issue of the Journal de Théorie des Nombres de Bordeaux dedicated to Michael Pohst on the occasion of his 60th birthday. This special volume will appear independently from the surprise conference from June 9th to 11th 2005 in Berlin. If you would like to submit an article for this issue please submit it directly to the journal. The deadline for submissions is the end of December 2005. Detailed information on the submission of articles can be found on:

<http://almira.math.u-bordeaux.fr/jtnb/jtnbsubmit.html>

## ANTS VII

Algorithmic Number Theory Symposium

Technische Universität Berlin, 23 to 28 July 2006

Since their inception in Cornell in 1994, the biennial ANTS meetings have become the premier international forums for the presentation of new research in computational number theory. The seventh Algorithmic Number Theory Symposium (ANTS VII) will be held Sunday 23 July to Friday 28 July 2006 at the Technische Universität Berlin in Berlin, Germany.

More Information can be found on the conference web page

<http://www.math.tu-berlin.de/~kant/ants>

Organizers:

Michael Pohst  
Florian Heß  
Sebastian Pauli

# Food

**Kantine**, 9th floor of math building. mo to fr, 11:00 - 16:00. Salad from €1.60, average main dish €3.50.

**Cafeteria**, ground floor of math building. mo to fr, 8:00 - 18:00. Indian dish €4, sandwiches €1.50.

**Manjuri**, Indian. Knesebeckstrasse 4. Lunch special €3.95, average main dish a la carte €7.

**Damas**, Arabic. Goethestr. 4. Falafel Sandwich from €3.

**Satyam**, vegetarian, original Indian. Goethestr. 5. Average main dish €5.

**Good Friends**, Chinese. Kantstr. 30. Average main dish €11.

**Der alte Schwede**, Swedish. Knesebeckstr. 92. Average main dish €15.

**Moon Thai**, Thai. Knesebeckstr. 15. Average main dish €8.

**Rosalinde**, German. Knesebeckstr. 16. Dishes from €5 to €13.

**Pasta e Basta**, Italian. Knesebeckstr. 94. Average main dish €10.

**Mar y Sol**, Spanish. Knesebeckstr./Savignyplatz. Tapas €15.

**Zillemarkt**, German. Bleibtreustr. 49. Evening €10, lunch €4.50.

**Lutter & Wegner**, German. Schlüterstr. 55. Average main dish €40.

## Lange Nacht der Wissenschaften

In the long night of sciences Berlin's universities and other scientific institutions present their research to the general public. It starts at 17:00 on Saturday and ends at 1:00 on Sunday morning. There are special buses (one line starts in front of the TU main building) connecting the institutions. See

<http://www.langenachtderwissenschaften.de>

The KANT group takes part in the *Lange Nacht der Wissenschaften*. Florian Heß will give two introductory talks about cryptography and in the *Kryptolabor* we will teach the participants how to encrypt their e-mail using the mail client Thunderbird with Enigmail extension.

# Program

Unless noted otherwise all talks take place in room MA 144 of the mathematics building of the TU.

## Thursday, 9.6.2005

- 13:00 - 14:50 Check-In (in MA 144) and Lunch
- 14:50 - 15:00 Opening
- 15:00 - 16:00 Helmut Koch: Remarks on the Foundations of Class Field Theory
- 16:00 - 16:15 Coffee
- 16:15 - 16:40 Jürgen Klüners: The number of  $S_4$ -fields with given discriminant
- 16:45 - 17:10 Claus Fieker: On Regulators
- 17:30 - 18:30 Johannes Buchmann: Digital signatures in the time of quantum computers  
(in auditorium MA 001)
- 18:45 - Reception (in the mathematics library)

## Friday, 10.6.2005

Session Chair: Martin Schörnig

- 10:00 - 11:00 Henri Cohen: Applications of the  $p$ -adic  $\Gamma$ -Function
- 11:00 - 11:15 Coffee
- 11:15 - 11:40 Attila Pethö: Units and Diophantine Equations
- 11:45 - 12:10 Mark Watkins: Indefinite LLL
- 12:15 - 14:30 Lunch

Session Chair: Mario Daberkow

- 14:30 - 15:30 Ken Nakamura: New polynomials producing absolute pseudoprimes with many factors
- 15:30 - 16:00 Coffee
- 16:00 - 16:25 Marcus Wagner: On the Computation of Humbert-Hermite Constants of Real Quadratic Number Fields
- 16:30 - 16:55 Aneesh Karve: GiANT - Graphical Interfaces for Computer Algebra Systems
- 17:00 - 17:30 Reinhard Schertz: Applications of Complex Multiplication

## Saturday, 11.6.2005

Session Chair: Klaus Wildanger

- 10:00 - 11:00 Curt Meyer: Über die Diskriminante der  $n$ -ten Teilwerte der Weierstrassschen  $\wp$ -Funktion
- 11:00 - 11:15 Coffee
- 11:15 - 11:40 Florin Nicolae: On Artin's L-Functions
- 11:45 - 12:15 Tobias Finis: On anticyclotomic  $\mu$ -invariants for CM fields
- 12:15 - 12:30 Closing
- 12:30 - 14:30 Lunch