

Fall School

# LIE THEORY, GEOMETRY, AND DIFFERENTIAL EQUATIONS

**October  
10 - 14,  
2017**

CASTLE  
RAUSCHHOLZ-  
HAUSEN



Volkswagen **Stiftung**

Philipps



Universität  
Marburg

**Hansjörg Geiges (Köln)** - Contact geometry and dynamics

**Nicolas Perrin (Versailles, France)** - Varieties with a group action

**Mihaela Pilca (Regensburg)** - Locally conformally Kähler geometry

**Anke Pohl (Jena)** - Eigenfunctions on locally symmetric spaces

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FOR MORE INFORMATION

[http://www.mathematik.uni-marburg.de/  
~agricola/rausch2017/](http://www.mathematik.uni-marburg.de/~agricola/rausch2017/)





**Lie Theory, Geometry, and Differential Equations**

**Castle Rauischholzhausen, October 10 –14, 2017**



**Tuesday, October 10**

- 12:30 lunch
- 14:00–14:50 Hansjörg Geiges  
Contact geometry and dynamics I
- 15:00–15:50 Nicolas Perrin  
Varieties with a group action I  
– coffee break –
- 16:30–17:20 Anke Pohl  
Eigenfunctions on locally symmetric spaces I
- 19:00 dinner

**Wednesday, October 11**

- 09:00–09:50 Nicolas Perrin  
Varieties with a group action II  
– coffee break –
- 10:30–11:20 Mihaela Pilca  
Locally conformally Kähler geometry I
- 11:30–12:20 Mihaela Pilca  
Locally conformally Kähler geometry II  
– lunch break –
- 14:00–14:50 Anke Pohl  
Eigenfunctions on locally symmetric spaces II
- 15:00–15:50 Hansjörg Geiges  
Contact geometry and dynamics II  
– coffee break –
- 16:30–17:05 Ramiro Lafuente  
The Ricci flow on solvmanifolds
- 17:15–17:50 Alexandra Otiman  
Twisted cohomology of lcK manifold
- 19:00 dinner

**Thursday, October 12**

- 09:00–09:50 Anke Pohl  
Eigenfunctions on locally symmetric spaces III  
– coffee break –
- 10:30–11:20 Hansjörg Geiges  
Contact geometry and dynamics III
- 11:30–12:20 Nicolas Perrin  
Varieties with a group action III  
– lunch break –
- 14:00–14:50 Mihaela Pilca  
Locally conformally Kähler geometry III
- 15:00–15:35 Tim Kirschner  
The extension of parallel sections in vector bundles  
– coffee break –
- 16:15–16:50 Marcos Origlia  
Locally conformal Kähler geometry on compact solvmanifolds
- 17:00–17:35 Christoph Harrach  
Poisson transforms for differential forms on homogeneous  
parabolic geometries
- 19:00 dinner

**Friday, March 11**

- 09:00–09:50 Mihaela Pilca  
Locally conformally Kähler geometry IV  
– coffee break –
- 10:30–11:20 Anke Pohl  
Eigenfunctions on locally symmetric spaces IV
- 11:30–12:20 Hansjörg Geiges  
Contact geometry and dynamics IV  
– lunch break –
- 14:00–14:50 Nicolas Perrin  
Varieties with a group action IV
- 14:55–15:30 Claudia Schoemann  
Unitary representations of  $p$ -adic  $U(5)$
- 15:35–16:10 Emilio Lauret  
Spectral uniqueness of bi-invariant metric on compact Lie groups
- 16:45 bus leaving at the upper parking
- 19:00 dinner (only for those staying until Saturday)

## Participants

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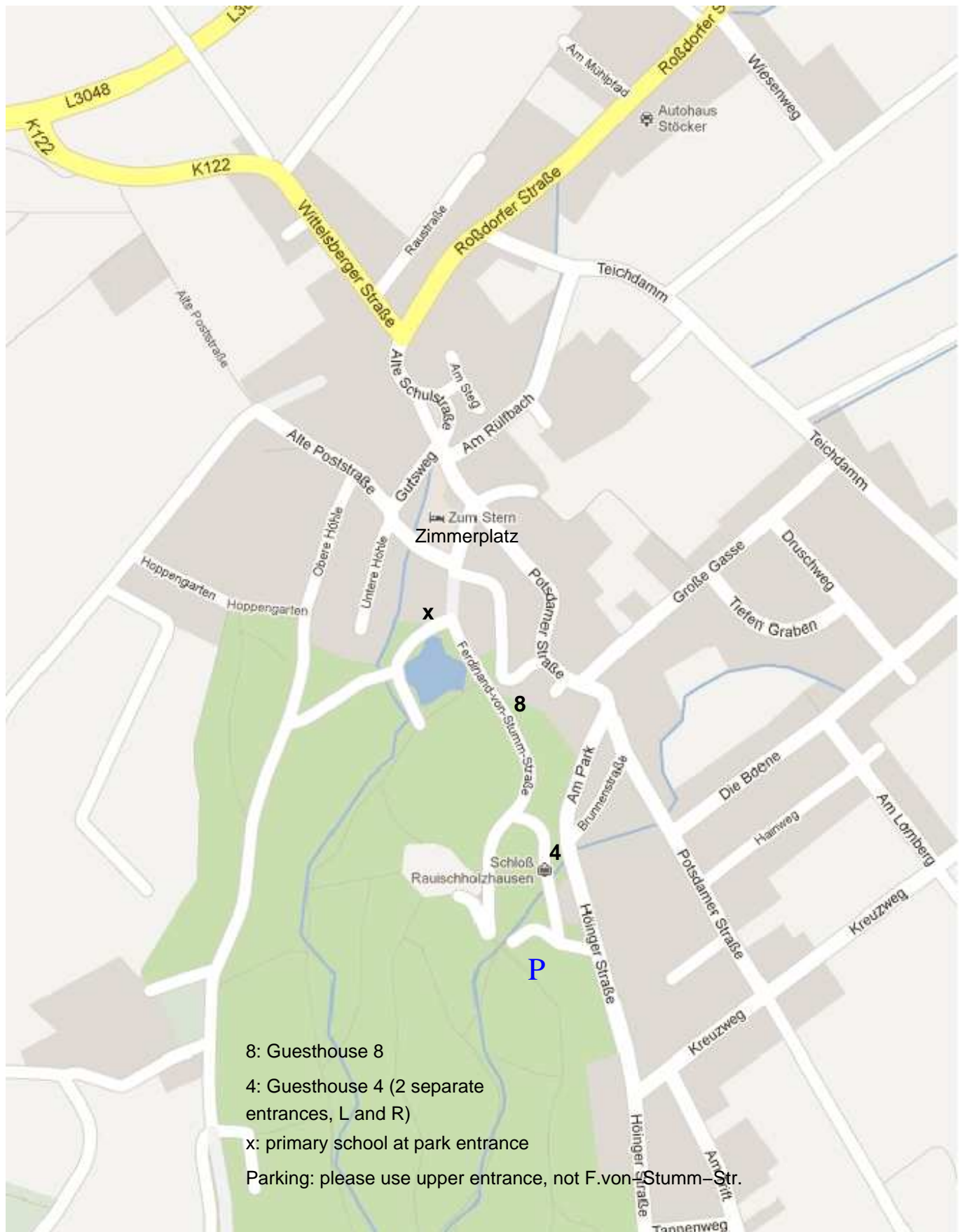
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## Local map (Rauschholzhausen)



**Useful addresses in Rauischholzhausen:**

Sparkasse Marburg-Biedenkopf (bank with ATM machines)  
Potsdamer Str. 12, 06424 / 928008

Schloss-Apotheke (pharmacy)  
Wittelsberger Str. 1, 06424 / 3575

Hofladen Duske (farm market)  
open Tue and Fr 4 pm – 6:30 pm and upon appointment  
Potsdamer Str. 7, 06424 / 70207  
www.biolandhof-duske.de

Edeka-Markt (supermarket)  
Große Gasse 2

Taxis:

normal taxis: Taxi Brunett (06421 / 880099), Taxi-Sorany ( 06421 / 484444).  
taxi with fixed price (usually cheaper): Telecar Marburg (06421 / 25100)

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Castle address: Schloss Rauischholzhausen  
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### Local map (downtown Marburg)

