SUMMER SCHOOL ARITHMETIC GEOMETRY
Essen, September 17 - 21, 2018

Useful information

Welcome to the city of Essen - we hope that you will have a pleasant stay! In order to help you find your way we have collected some information that you might find useful.

Conference venue

All talks and the coffee breaks take place in the lecture hall building "Hörsaalzentrum R14". It is located south of the university campus (see the map on page 5).

It is a 15-minute walk from the hotel. Note that this is not the math department!
Contact person

If you have a question or if you need any help please come and see one of the organizers:

- Massimo Bertolini
- Ulrich Goertz
- Jan Kohlhaase
- Vytautas Paskunas

Also our secretaries Birgit Hasel and Julia Thiemann will be around sometimes.

Excursion

On Wednesday afternoon there is an excursion to "Zeche Zollverein" in Essen. This is a former coal mining plant which is now a UNESCO World Heritage site. It hosts several museums and cultural facilities explaining the industrial history of the region. There will be a guided tour in English.

The excursion is free of charge. If you have not yet registered and would still like to participate, please let know one of the organizers. There are still places available.

There will be a shuttle transfer to "Zeche Zollverein" and back to Essen center:

- **Departure to "Zeche Zollverein":** from conference venue at 14:30
- **Departure to Essen center:** from "Zeche Zollverein" at 17:30

Please be on time!

Hotel

Motel One
Kennedy Platz 3
45127 Essen
phone: +49 (0)201 / 4375370

It takes about 15 minutes to walk from the hotel to the conference venue (see the map on page 5).

Internet & WIFI

Please use eduroam which is available on campus and inside all university buildings. If your home institution does not support eduroam please come and see Jan Kohlhaase. We can set up a short-term account that allows you to access the university's WIFI-network as a guest.
Lunch & dinner

The student cafeteria is called "Mensa" and is situated on campus (see map on page 5). They serve lunch from 11:45 till 14:30 and also offer vegetarian dishes. They do not serve dinner, however. At the cashier please tell the staff that you are a guest. You can pay by cash. If you are enrolled as a student in the state of Nordrhein-Westfalen you might try to use your student-ID to get a reduced price.

There is a big shopping mall on "Limbecker Platz" (see the map on page 5). When walking from the conference venue to the math department you actually pass by. There are several small restaurants inside, a supermarket, several bakery shops and other alternatives for a quick lunch.

As for dinner, the hotel is located directly in the city center. There are numerous restaurants that you can try.

Math department

The math department is within walking distance from the hotel and from the conference venue (see the map on page 5). It is opposite a big IKEA-market and has a shop called "Conrad Electronic" on the ground floor. The street address is

Universität Duisburg-Essen
Fakultät für Mathematik
Thea-Leymann-Strasse 9
45127 Essen

If you have some time to spare or if you would like to discuss mathematics there is ample space in the seminar rooms on the third floor. Moreover, all local participants have their offices there.

Public transportation

If you would like to get around or see other parts of the city you can use the public transportation system. There are buses, trams and subways. Tickets can be purchased at the vending machines (subway, tram) or directly from the driver (bus). Note that you need to stamp and validate your ticket on the trains and buses. Please ask other passengers if you are uncertain what to do. For more information concerning time tables and fares please have a look at www.evag.de.

Printers

If you need to print anything important (like tickets or boarding passes, for example) please come and see one of the organizers or secretaries. There are no publicly accessible printers.
## Schedule

<table>
<thead>
<tr>
<th>starting time</th>
<th>Monday</th>
<th>Tuesday</th>
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### minicourses

- Fabrizio Andreatta: *p*-adic variations of automorphic sheaves
- Ana Caraiani: The cohomology of locally symmetric spaces and applications to modularity
- Eugen Hellmann: *p*-adic automorphic forms, eigenvarieties and criteria for classicality

### research talks

- Patrick Allen: Automorphy of mod 3 representations over CM fields
- Charlotte Chan: Period identities of CM forms on quaternion algebras
- Valentin Hernandez: Families of Picard modular forms and application to the Bloch-Kato conjecture
- Cong Xue: Cohomologies of stacks of shtukas

All talks will be 60 minutes.
1. Motel One (your hotel)
2. Central station
3. Shopping mall "Limbecker Platz"
4. Student cafeteria "Mensa"
5. Conference venue (lecture hall building "Hörsaalzentrum R14")
6. Math department