

Summer school on Geometry

20/08/2018 – 31/08/2018

Course Leader: Dr. Johan van de Leur
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The summer school will take place at the library on the 7th floor of the Hans Freudenthalbuilding, Budapestlaan 6, Utrecht.

Please find information about travel directions to the location at the end of the programme.

The Mathematics Department will provide lunch on Monday August 20 and Friday August 31 and dinner on Monday August 20 and Tuesday August 28. At all other times you will be expected to bring/buy your own lunch.

Week 1	
Saturday and Sunday, August 18 and 19	Key pick-up You will find the exact key pick up location in the pre-departure information, which becomes available after you have paid the course fee.
Monday, August 20	Dr. Johan van de Leur: Frieze Patterns 10.00 – Registration and coffee 11.00 – Lecture 11.45 – Exercise session 12.30 – Lunch at the Vagant, outside the math building 13.30 – Lecture 14.45 – Exercise session 16.00 – Walk along the river the Kromme Rijn to Theehuis Rhijnauwen 18.00 – Dinner at Theehuis Rhijnauwen, Rhijnauwenselaan 16, Bunnik

For information about the Social Programme visit the [Utrecht Summer School website!](#)

Tuesday, August 21	<p><i>Dr. Jaap van Oosten: The Topology of Ordinal Numbers</i></p> <p>09.00 – Lecture 11.00 – Exercise session 12.30 – Lunch break 13.30 – Lecture 15.30 till 17.00 – Exercise session</p>
Wednesday, August 22	<p><i>Prof. Frans Oort: Elliptic curves and the Last Entry by Gauss</i></p> <p>09.00 – Lecture 11.00 – Exercise session 12.30 – Lunch break 13.30 – Lecture 15.30 till 17.00 – Exercise session</p>
Thursday, August 23	<p><i>Dr. Gil Cavalcanti: Euler Characteristic and Classification of Surfaces</i></p> <p>09.00 – Lecture 11.00 – Exercise session 12.30 – Lunch break 13.30 – Lecture 15.30 till 17.00 – Exercise session</p>
Friday, August 24	<p><i>Dr. Martijn Kool: Curves and Singularities</i></p> <p>09.00 – Lecture 11.00 – Exercise session 12.30 – Lunch break 13.30 – Lecture 15.30 till 17.00 – Exercise session</p>

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Week 2	
Saturday and Sunday, August 25 and 26	For the social programme organised by the university for all the summer school students, see https://www.utrechtsummerschool.nl/social-programme
Monday, August 27	<p><i>Dr. Alvaro del Pino Gomez: A Gentle Introduction to Morse Theory</i></p> <p><i>09.00 – Lecture</i> <i>11.00 – Exercise session</i> <i>12.30 – Lunch break</i> <i>13.30 – Lecture</i> <i>15.30 till 17.00 – Exercise session</i></p>
Tuesday, August 28	<p><i>Marieke van der Wegen MSc: Chips Firing on Graphs</i></p> <p><i>09.00 – Lecture</i> <i>11.00 – Exercise session</i> <i>12.30 – Lunch break</i> <i>13.30 – Lecture</i> <i>15.00 till 16.00 – Exercise session</i> <i>18.00 – Dinner in the centre of Utrecht</i></p>
Wednesday, August 29	<p><i>Prof. Gunther Cornelissen: Zeta Functions</i></p> <p><i>09.30 – Class</i> <i>12.00 – Lunch break</i> <i>13.30 till 16.00 – Class</i> <i>Explanatory parts will be alternated with working on selected exercises and projects (alone and/or in groups)</i></p>
Thursday, August 30	<p><i>Prof. Erik van den Ban: Geometry and Analysis on $SL(2, R)$</i></p> <p><i>09.00 – Lecture</i> <i>11.00 – Exercise session</i> <i>12.30 – Lunch break</i> <i>13.30 – Lecture</i> <i>15.30 till 17.00 – Exercise session</i></p>

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Friday, August 31	<i>Prof. Frits Beukers: Diophantine Equations</i> <i>09.00 – Lecture</i> <i>11.00 – Exercise session</i> <i>12.00 – Lunch at the Vagant, outside the math building</i>
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The summer school is located at the Hans Freudenthal Building, Budapestlaan 6 in Utrecht. You can easily bike from the centre of the city to the university. On the website of the summer schools organised by the university you can find information about renting bikes or using the public transport in Utrecht:

<https://www.utrechtsummerschool.nl/utrecht/getting-around> .

A useful website for public transport is: <http://9292.nl/en/>

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