Utrecht University, Faculty of Science

Geometry

The summer school on Geometry aims to cover a spectrum of modern geometry as broad as possible, as well as their interaction with neighbouring fields such as logic, Lie and number theory and physics.

Geometry is the theory of space. "Space" is a multi-faceted concept: it refers equally well to the phase space of a classical mechanical system, the differential-geometrical space of general relativity or the operator-theoretic space of quantum mechanics from physics, as to the internet as a huge graph of connections.

The summer school on Geometry, which is organized by the Utrecht Geometry Centre, is designed for advanced undergraduate students with basic knowledge of algebra and topology.

Programme summer school on Geometry
August 15 - August 26, 2016

Week 1

Aug. 15	Dr. Fabian Ziltener	**Some highlights of symplectic geometry**
Aug. 16	Dr. Martijn Caspers	**The geometry of discrete groups**
Aug. 17	Dr. Jaap van Oosten	**The topology of ordinal numbers**
Aug. 18	Dr. Bas Janssens	**Loop spaces**
Aug. 19	Dr. Johan van de Leur	**Grassmannians and representation theory of GL(n)**

Week 2

Aug. 22	Prof. Gunther Cornelissen	**P-adic numbers**
Aug. 23	Dr. Damaris Schindler	**The local-global principle for quadratic forms**
Aug. 24	Prof. Ieke Moerdijk, Joost Nuiten M.Sc, Dr. Gijs Heuts	**Representations of finite groups**
Aug. 25	Prof. Frans Oort	**Elliptic curves**
Aug. 26	Prof. Frits Beukers	**Diophantine equations**

COURSE DIRECTOR:	Dr. Johan van de Leur
PERIOD:	15 August 2016 - 26 August 2016
FEE:	€800 (including housing), scholarships available
CREDITS:	3.0 ECTS
MORE INFORMATION:	www.utrechtsummerschool.nl