Ciencia
y Tecnología

26

29 de **junio** al 3 de **julio**

ESCUELA

Advanced School in Geometric Group Theory

XXV School of Mathematics
«Lluis Santaló»

UIMP
Universidad
Internacional
Menéndez Pelayo

Cursos de verano **Santander**

Horario y dirección de contacto

Mañana de L a V: 9.00 a 14.00 h

Santander
Campus de Las Llamas
Avda. de los Castros, 42
39005 Santander
Tlf.: 942 29 87 00

Madrid
C/ de Isaac Peral, 23
28040 Madrid
Tlf.: 91 592 06 31 / 33

A partir del 22 de junio

Mañana de L a V: 9.00 a 14.00 h
Tarde de L a J: 15.30 a 18.00 h

Santander
Palacio de la Magdalena
39005 Santander
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Organizado en colaboración con

RSEM

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Este curso es susceptible de ser reconocido como formación permanente del profesorado para el personal docente de los centros que imparten las enseñanzas reguladas en la Ley Orgánica 2/2006, de Educación, en base al artículo 21 y 29 de la Orden EDU/2886/2011, de 20 de octubre, por la que se regula la convocatoria, reconocimiento, certificación y registro de las actividades de formación permanente del profesorado.

Código 666Q - ECTS: 2,5

Dirección

Yago Antolín Pichel
Universidad Complutense de Madrid

Concepción Martínez Pérez
Universidad de Zaragoza

Geometric Group Theory aims to study groups through their actions on spaces—typically, but not exclusively, of non-positive curvature. While the works of Gromov and Thurston in the 1980s are considered the foundations of the field, its origins can be traced back to Max Dehn in the 1920s, when he formulated the three fundamental decision problems in group theory.

There is a remarkable number of connections between this field and other areas of mathematics. Furthermore, it has played a fundamental role in the recent solution of the Virtual Haken Conjecture and in the Tarski problems concerning first-order logic.

The school will focus on new trends in geometric group theory. These topics will be presented through two five-hour courses and five two-hour advanced talks. The program aims to train both national and international Ph.D. students, as well as young researchers with interdisciplinary interests in mathematics.

Apertura matrícula
Desde el día 13 de abril de 2026
(plazas limitadas)

Solicitud
online

Lunes 29 de junio

10.00 h Inauguración

10.30 h Finiteness properties, Morse theory and subgroups of hyperbolic groups I
Claudio Llosa Isenrich
Karlsruhe Institute of Technology

11.30 h Artin and Coxeter groups I
Kasia Jankiewicz
University of California Santa Cruz

13.00 h Algebraic, geometric and profinite properties of Dyer groups I
Olga Varghese
University of Münster

15.30 h Equations in groups I
Laura Ciobanu
Technical University Berlin

16.30 h Homological Dehn functions I
Robert Kropholler
Warwick University

Martes 30 de junio

09.30 h Artin and Coxeter groups II
Kasia Jankiewicz

11.30 h Finiteness properties, Morse theory and subgroups of hyperbolic groups II
Claudio Llosa Isenrich

12.30 h (Clasical & Cubical) Small Cancellation I
Macarena Arenas
Cambridge University

15.30 h Special coherent groups I
Samuel Fisher
ICMAT

16.30 h Lightning talks

Miércoles 1 de julio

09.30 h Finiteness properties, Morse theory and subgroups of hyperbolic groups III
Claudio Llosa Isenrich

11.00 h Artin and Coxeter groups III
Kasia Jankiewicz

12.30 h Special coherent groups II
Samuel Fisher

Jueves 2 de julio

09.30 h Artin and Coxeter groups IV
Kasia Jankiewicz

11.00 h Finiteness properties, Morse theory and subgroups of hyperbolic groups IV
Claudio Llosa Isenrich

12.30 h Homological Dehn functions II
Robert Kropholler

15.30 h Equations in groups II
Laura Ciobanu

16.30 h Algebraic, geometric and profinite properties of Dyer groups II
Olga Varghese

Viernes 3 de julio

09.30 h Finiteness properties, Morse theory and subgroups of hyperbolic groups V
Claudio Llosa Isenrich

11.00 h Artin and Coxeter groups V
Kasia Jankiewicz

12.30 h (Clasical & Cubical) Small Cancellation II
Macarena Arenas

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