

ated in 1974 as a result of the splitting of the former Faculty of Sciences into several new faculties.

It is located at the historical building at Plaça Universitat in the center of the city. The building was begun in 1863 and was declared a national monument of historic and artistic interest in 1970.

The Faculty of Mathematics offers studies of Mathematics, Computer Science and Doctorate of Mathematics.

In the academic year 2006–2007 the new master of Advanced and Professional Mathematics will start in the framework of the European Space of High Education.

The faculty has a staff of 117 people dedicated to both teaching and research. They are organised in several well-established and internationally recognized research groups in the following research areas: Algebraic Geometry, Commutative Algebra, Com-



plex Analysis, Differential Geometry, Dynamical Systems, History of Mathematics, Mathematical Logic, Number Theory, Real and Functional Analysis, Statistics, Stochastic Processes, Topology, Volume Visualization and Artificial Intelligence.

In association with the Faculty there is a research institute called IMUB (*Institut de Matemàtiques de la Universitat de Barcelona*). The Institute is devoted to advanced research and training in any field of pure and applied Mathematics. More precisely, its main objectives are the support to research in Mathematics through the organisation of scientific activities and the promotion of interdisciplinary work among researchers from different fields of Mathematics. It also edits the journal *Collectanea Mathematica*, which was founded by Professor José M. Orts in 1948 and is the oldest mathematical journal in Spain. The journal publishes high quality original research papers in pure and applied Mathematics.

The mathematical library of the University of Barcelona is one of the best in Spain and the biggest of Catalonia. It has about 18,000 monographs and 669 journals.

Mathematics Faculty
University of Barcelona

Mathematics at the Autonomous University of Barcelona

Catalonia holds a significant place in international mathematical output, with a 0.5 % share of all publications worldwide. According to the Report on Research in Catalonia (reproduced in this issue of *SCM/Notícies*), Catalonia is in sixth place —after Israel, France, Switzerland, Canada and Denmark— in terms of the number per inhabitant of mathematical articles published in quality journals. In Spain, the university rankings consistently place the Autonomous University of Barcelona (UAB) (www.uab.cat) in the top three or four places and, according to the analysts, the UAB's Department of Mathematics holds the top positions in the different established classifications, due to the quality of its research and its teaching staff.

The UAB's Department of Mathematics has 56 full-time professors, a total teaching and research staff of 129 mathematicians and is home to 13 highly competitive research groups. The department offers graduate studies in Mathematics and statistics and double degrees in Mathematics and computer sciences and Mathematics and statistics, as well as several master's and doctoral courses. The fact that all the areas of Mathematics are grouped in a single department and that the UAB is a campus university strongly favours the multidisciplinary nature of the research and the courses. As a result of this, we boast a department that is unique in the Catalan scientific ambit. It is located at the heart of one of the country's most dynamic

R&D areas, surrounded by 33 important research centres, such as the Centre for Computer Vision, the Artificial Intelligence Centre, the Catalan Nanotechnology Institute and the future Synchrotron Light Laboratory, which will be one of the main scientific facilities of southern Europe. Furthermore, our department is close to the UAB's sports facilities, the university village apartments and to the metro station that links us to the centre of Barcelona.



The fact that the facilities of the Centre de Recerca Matemàtica (CRM) are adjacent to our department and that the CRM is a centre attached to the UAB has given an enormous boost to the quality of research at the department and has helped to get our research groups better known around the world. The close co-operation between the UAB's Department of Mathematics and the CRM is partly responsible for the leadership of our research groups in Catalonia.

We are proud to include among our researchers the only Spanish Salem Prize winner (Xavier Tolsa), the only Spanish Richard von Mises Prize winner (José A. Carrillo) and two of the four most cited Spanish mathematicians (Pere Ara and



José A. Carrillo

Jaume Llibre, according to the ISI). Apart from these noteworthy individuals, our 13 research groups also hold important places on the cutting edge of international mathematical research. We have research groups in ring theory, algebraic and arithmetic geometry, geometric group theory, function theory, harmonic and complex analysis, stochastic analysis, mathematical statistics, algebraic topology, differential geometry, dynamical systems, partial differential equations, mathematics education and low-dimensional discrete dynamics. These groups participate actively in projects at the Catalan, Spanish and European levels and have an annual research budget of 1.2M€.

The UAB's Department of Mathematics has published the international research journal, *Publicacions Matemàtiques*, since 1976. In the 2005 JCR impact factor index this journal is ranked 49 out of 181 journals in pure mathematics and, over the years, has gained a reputation for the quality of its articles and its relatively short waiting time. The journal is published simultaneously on paper and online.



We feel that all of this makes the UAB's Department of Mathematics a sound choice for the best students in Europe when deciding on their choice of master's and doctoral studies. It is also the right choice for young researchers who, through the different research scholarships (Ramón y Cajal, ICREA, Marie-Curie, etc.), seek the opportunity to work and improve in a dynamic and friendly institution. We invite you all to visit our website (mat.uab.cat) and to contact us for more information on study and research in Mathematics at the UAB.

Jaume Aguadé
Director of the Mathematics Department
UAB