

## RESEARCH PROGRAMMES

### Arithmetic Geometry

September 2009 to July 2010  
 Coordinators: F. Bars, L. Dieulefait, V. Rotger  
[www.crm.cat/arithgeo](http://www.crm.cat/arithgeo)

### The Infinity Project

September 2009 to July 2011  
 Project Leader: Sy-David Friedman  
[www.crm.cat/InfinityProject](http://www.crm.cat/InfinityProject)

### Foliations

April to July 2010  
 Coordinators: J. Álvarez, G. Hector, M. Nicolau, P. Walczak, R. Wolak  
[www.crm.cat/Foliations](http://www.crm.cat/Foliations)

### Variational Analysis and Optimization: Theory and Applications

September to December 2010  
 Coordinators: A. Daniilidis, A. Ferrer, J. E. Martínez-Legaz  
[www.crm.cat/Opt2010](http://www.crm.cat/Opt2010)

## ADVANCED COURSES

### Arithmetic Geometry for Function Fields of Positive Characteristic

February 22 to March 5, 2010  
[www.crm.cat/acarithff](http://www.crm.cat/acarithff)

### Second International School on Geometry and Physics: Geometric Langlands and Gauge Theory

March 17 to 26, 2010  
[www.crm.cat/aclanglands](http://www.crm.cat/aclanglands)

### Foliations: Dynamics-Geometry-Topology

May 3 to 7, 2010  
[www.crm.cat/acfoli](http://www.crm.cat/acfoli)

### Modularity

June 14 to 25, 2010  
[www.crm.cat/acmodulari](http://www.crm.cat/acmodulari)

### Financial Engineering Summer School

July 6 to 9, 2010  
[fess2010.afi.es](http://fess2010.afi.es)

### Integral Geometry and Valuation Theory

September 6 to 10, 2010  
[www.crm.cat/acintegralgeometry](http://www.crm.cat/acintegralgeometry)

## CONFERENCES

### III International Conference on the Anthropological Theory of the Didactic

January 25 to 29, 2010  
[www.crm.cat/cdidactic](http://www.crm.cat/cdidactic)

### Teichmüller Theory and its Interactions in Mathematics and Physics

June 28 to July 3, 2010  
[www.esf.org/index.php?id=6305](http://www.esf.org/index.php?id=6305)

### Modular Conference: Arithmetic of Modular Forms and Modularity Results

July 5 to 9, 2010  
[www.crm.cat/cmodular](http://www.crm.cat/cmodular)

### Geometry and Topology of Foliations

July 12 to 16, 2010  
[www.crm.cat/cfoli](http://www.crm.cat/cfoli)

### Numerical Optimization and Applications in Engineering

October 13 to 15, 2010  
[www.crm.cat/cnumopen2010](http://www.crm.cat/cnumopen2010)

### Advances in Optimization and Related Topics

November 29 to December 3, 2010  
[www.crm.cat/adort2010](http://www.crm.cat/adort2010)

## WORKSHOPS

### Function Field Arithmetic I and II

March 29 to 31 and April 19 to 20, 2010  
[www.crm.cat/FunctionFieldI](http://www.crm.cat/FunctionFieldI)  
[www.crm.cat/FunctionFieldII](http://www.crm.cat/FunctionFieldII)

### Iwasawa Theory over Function Fields of Characteristic $p > 0$

April 6 to 10, 2010  
[www.crm.cat/wkiwasawa](http://www.crm.cat/wkiwasawa)

### Biomathematics (with ICMAT)

April 7 to 9, 2010  
[www.icmat.es/seminarios/workshop\\_BM/es/](http://www.icmat.es/seminarios/workshop_BM/es/)

### Holomorphic Foliations, Geometry of Foliations, and Dynamics of Foliations

April 21 to 30, 2010  
[www.crm.cat/wkholomorphic](http://www.crm.cat/wkholomorphic)  
[www.crm.cat/wkgeometry](http://www.crm.cat/wkgeometry)  
[www.crm.cat/wkdynamics](http://www.crm.cat/wkdynamics)

## OTHER ACTIVITIES

### Seminar Cycle on Computational and Systems Neuroscience 2009-2010

[www.crm.cat/ComputationalNeuroscience](http://www.crm.cat/ComputationalNeuroscience)

### Màster en Matemàtiques per als instruments financers

[www.mat.uab.cat/finances](http://www.mat.uab.cat/finances)

### The Geometric Langlands Correspondence III

January 14, 2010  
[www.crm.cat/LanglandsIII](http://www.crm.cat/LanglandsIII)

### Seminar on Quantum Processing: Mathematics, Physics, and Technology

February 25, 2010  
[www.crm.cat/quantumprocessing](http://www.crm.cat/quantumprocessing)

### Drinfeld Modules and $L$ -functions

Advanced Course and Workshop  
 April 12 to 16, 2010  
[www.crm.cat/wkacdrinfeld](http://www.crm.cat/wkacdrinfeld)

### GEMT 2010

Modeling Days  
 July 6 to 8, 2010  
[www.crm.cat/GEMT10](http://www.crm.cat/GEMT10)