



Irish Mathematics Summer School for Undergraduates 2011



UCD - TCD School of Mathematics & Mathematical Sciences

Monday 30th May – Friday 3rd June 2011

Theme: Exploring the Frontiers of Mathematics Research

Aims:

- To introduce students to ideas of research in pure and applied mathematics
- To give students a flavour of the beauty, unity and power of mathematics
- To have a session on career opportunities

Topics: (Sample)

- Fractals in Nature
- Actuarial Sciences: their impact on our everyday lives
- Financial Mathematics: option pricing models
- Extreme Events in Atmosphere and Oceans: rogue waves and tsunamis
- Number Theory and Encryption: combining the power of mathematics and computers
- Open Challenge Problems in: Finance, Number theory, Analysis and Fluid Mechanics

Format:

- Talks in the morning and discussion sessions in the afternoon
- Sessions on group problem solving in teams. Contests at the end are planned
- A half-day Conference for financial professionals is planned (students are expected to attend)

Applications for the summer school are invited from undergraduates in mathematics, business and finance, physics and actuarial studies. Places are limited.*

Applications should be submitted by email to rhona.preston@ucd.ie giving your name, contact details, course details, grade received in last year's examination and the name of one referee. Applications may also be posted or delivered to UCD School of Mathematical Sciences, Science Lecture Building, UCD, Belfield, Dublin 4.

*** Closing date for applications is Friday 29th April 2011 (form attached).**

Those selected will be informed by Friday 6th May 2011. A limited number of €250 stipends are available for the Summer School. These are only for penultimate year university students in the disciplines listed.

