PROGRAMME
20th SEPTEMBER MEETING

UNIVERSITY COLLEGE DUBLIN

3–4 SEPTEMBER 2007

Monday 3rd

10:00–10:30   Registration and coffee

10:30   Opening address — **Gary Crawley (SFI)**

11:00–11:50   **David H Armitage (QUB)**
Unfinished business: some open questions in classical analysis

12:00–12:25   **Shane O'Rourke (Cork IT)**
The equation $x^p y^q = z^r$ in tree-free groups

12:30–12:55   **Ciaran Mac an Bhaird (NUIM)**
"Gauss" method for the determination of the minimal polynomial of the Gaussian period

13:00–14:00   Lunch

14:00–14:55   **Peter Lynch (UCD)**
Calculating the weather: the mathematics of atmospheric modelling

15:00–15:20   Coffee

15:00–15:25   **Huizhong Wu (DCU)**
Large fluctuations in stochastic dynamical systems

15:30–16:00   Coffee

16:00–16:50   **Keith Weber (Rutgers, USA)**
*How do students learn to understand formal
mathematical concepts?*

17:00–18:15   IMS Committee Meeting

Tuesday 4th

 9:30–9:55   **Anca Mustata (UCC)**
On spaces of rational curves and their cohomology

10:00–10:25   **Stephen Buckley (NUIM)**
Nonpositive curvature on metric spaces

11:10–11:30   Coffee

11:00–11:50   **Geraldo Botelho
(Valencia, Spain & Uberlândia, Brazil)**
*Ideals of homogeneous polynomials from a
historical viewpoint*

12:00–12:50   IMS Annual General Meeting

13:00–14.00   Lunch

14:00–14:50   **Robert Osburn (UCD)**
Ramanujan, partitions, and overpartitions

15:00–15:30   Coffee

15:30–15:55   **Claire Gormley (UCD)**
*Exploring voting blocs in the Irish
electorate: a statistical modelling approach*

16:00–16:25   **Martin Mathieu (QUB)**
A multivariable Cayley–Hamilton theorem