Inaugural Lecture: Professor Rod Halburd
"Detecting integrability: singularities, solvability and solitons"

Speaker: Professor Rod Halburd, UCL
UCL Contact: Bonita Carboo b.carboo@ucl.ac.uk *(Visitors from outside UCL please email in advance).*
Date/Time: Wednesday, 13 March 2013, 4:30 pm
Venue: Room 505, Mathematics Department

Title: Detecting integrability: singularities, solvability and solitons

Abstract
Roughly speaking, an equation (e.g., a differential or discrete equation or a cellular automaton) is said to be integrable if it is in some sense solvable or at least if its solutions can be characterized in a particularly nice way. The integrability of an equation is not always obvious. In this talk I will describe various properties that can be used as integrability detectors. In particular, I will describe the behaviour of solutions of some differential and difference equations in the complex plane and some number-theoretic properties of solutions of discrete equations. There will also be a quick look at "tropical" mathematics.

Details
Celebrating the Inaugural Lecture of Professor Rod Halburd in Room 505, Mathematics Department

Programme:

4:30 Introduction to Proceedings, Professor Richard Catlow, Executive Dean, Mathematical and Physical Sciences Faculty (MAPS), UCL.

4:40 Inaugural Lecture by Professor Rod Halburd "Detecting integrability: singularities, solvability and solitons"

Lecture is chaired by Professor Richard Catlow, Executive Dean, Mathematical and Physical Sciences Faculty (MAPS), UCL and introduced by Professor Robb McDonald, Head of Department of Mathematics. Professor Robb McDonald will be giving the vote of thanks.

5:30 Reception in Room 502

Link: http://iris.ucl.ac.uk/iris/browse/profile?upi=RHALB06

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