

Function theory meetings at University College London

6-9 September 2010

Preliminary programme

One Day Function Theory Meeting

6 September 2010

Monday, September 6

- 10:20-10:50 **Tea/Coffee** (room 706)
- 10:55-11:00 **Opening** (Harrie Massey Lecture Theatre)
- 11:00-11:35 Alexandre Eremenko (Purdue University, USA)
Singular perturbation and PT-symmetric polynomial potentials
- 11:40-12:15 Tom Carroll (University College Cork, Ireland)
Torsional rigidity for principal frequency
- 12:20-14:15 **Lunch**
- 14:15-14:25 **Discussion of next year's meeting**
- 14:25-15:00 Zhuan Ye (University of Northern Illinois, USA)
Picard's theorem on annuli
- 15:05-15:40 Stephen Gardiner (University College Dublin, Ireland)
Sets of determination for the Nevanlinna class
- 15:45-16:15 **Tea/Coffee** (room 706)
- 16:15-16:50 Dan Nicks (Open University, UK)
Real meromorphic functions
- 16:55-17:30 Walter Hayman (Imperial College, UK)
The radial growth of bounded and other functions
- 17:30 **End**

Workshop on Function Theory and Dynamical Systems

7-9 September 2010

Tuesday, September 7

- 9:30-10:05 Jim Langley (University of Nottingham, UK)
Non-real zeros of derivatives of real meromorphic functions
- 10:10-10:45 Yik Man Chiang (Hong Kong University of Science and Technology, PRC)
Nevanlinna theory based on Askey-Wilson divided difference operator
- 10:50-11:20 **Tea/Coffee** (room 706)
- 11:20-11:55 Lucia di Vizio (Université Paris VII, France)
Generic Galois groups for q -difference equations
- 12:00-12:35 Risto Korhonen (University of Eastern Finland)
Difference Painlevé equations and Nevanlinna theory
- 12:40-14:30 **Lunch**
- 14:30-15:05 Davide Masoero (SISSA, Italy)
The (un)reasonable effectiveness of the complex WKB method
- 15:10-15:45 Nikolaos Tsirivas (University College Dublin)
Iterates of Birkhoff type operators and common hypercyclic vectors of these operators
- 15:50-16:20 **Tea/Coffee** (room 706)
- 16:20-16:55 William Cherry (University of North Texas, USA)
Survey of and introduction to value distribution theory over non-Archimedean fields
- 17:00-17:35 Peter Clarkson (University of Kent at Canterbury)
Painlevé equations - nonlinear special functions
- 17:40 **End**

Wednesday, September 8

- 9:30-10:05 Aimo Hinkkanen (University of Illinois at Urbana-Champaign, USA)
On Smale's problems on polynomials
- 10:10-10:45 Edward Crane (University of Bristol, UK)
Riemann mapping in genus one
- 10:50-11:20 **Tea/Coffee** (room 706)
- 11:20-11:55 Alain Escassut (Université Blaise Pascal, France)
Multiplicative spectrum of the Banach algebra of bounded analytic functions in the "open" p-adic unit disk
- 12:00-12:35 John Osborne (Open University, UK)
Properties of spiders' web fast escaping sets
- 12:40-14:30 **Lunch**
- 14:30-15:05 Kazuya Tohge (Kanazawa University, Japan)
A second main theorem in tropical Nevanlinna theory
- 15:10-15:45 Ilpo Laine (University of Eastern Finland)
Tropical Nevanlinna theory and ultra-discrete equations
- 15:50-16:20 **Tea/Coffee** (room 706)
- 16:20-16:55 Gwyneth Stallard (Open University, UK)
Properties of multiply connected Fatou components of entire functions
- 17:00-17:35 Phil Rippon (Open University, UK)
Slow escaping points of transcendental entire functions
- 17:40 **End**

Thursday, September 9

- 9:30-10:05 Chung-Chun Yang (Hong Kong University of Science and Technology, PRC)
Some recent results and problems on the applications of value distribution theory
- 10:10-10:45 Alastair Fletcher (Warwick, UK)
Quasiregular dynamics on the n-sphere
- 10:50-11:20 **Tea/Coffee** (room 707 - different room!)
- 11:20-11:55 Beatrice Pelloni (University of Reading, UK)
Non-self-adjoint linear differential operators and complex representations
- 12:00-12:35 Antonio Moro (SISSA, Italy)
Dispersive shock waves and Painlevé transcendents: the Universality Conjecture
- 12:40 **End**