

Number Theory Meeting

University of Stellenbosch, South Africa

7 – 11 December 1998

Programme

VENUE: Department of Mathematics, University of Stellenbosch.

Monday 7 December:

9.30 - 10.30: *On maximal function fields and class field theory I*, Peter Roquette (Heidelberg).

11.00 - 12.00: *On Grothendieck's theory of Dessins d'Enfants*, Florian Pop (Bonn).

12.30 - 14.30: *Lunch*.

15.00 - 16.00: *A new approach to the Rogers-Ramanujan identities*, Arnold Knopfmacher (WITS).

16.00 - 16.30: *Tea/Coffee*.

16.30 - 17.30: *A sharp lower bound for the number of irreducible normal subgroups of a finite group*, Marcel Wild (US).

Tuesday 8 December:

9.30 - 10.30: *Maximal function fields and class field theory II*, Peter Roquette (Heidelberg).

11.00 - 12.00: *On Towers of function fields I*, Brink van der Merwe (US).

12.30 - 14.30: *Lunch outing (Delheim)*

15.00 - 16.00: *Isomorphism versus elementary equivalence – some consequences of Voevodsky's theorem*, Florian Pop (Bonn).

16.30 - 17.30: *Rethinking "Basic Number Theory"*, Kenneth Hughes (UCT).

Wednesday 9 December:

Change of venue for this day: *Department of Mathematics, University of the Cape Town.*

9.30 - 10.30: *On Gauss periods of fixed order*, Stan Gurak (Boston).

11.00 - 12.00: *Mellin transforms and asymptotics: Digital sums*, Helmut Prodinger (WITS).

12.00 - 14.00: *Lunch.*

14.00 - 18.00: *Outing:* Trip to Cape Point.

Thursday 10 December:

9.30 - 10.30: *Maximal function fields and class field theory III*, Peter Roquette (Heidelberg).

11.00 - 12.00: *Algebraic curves over finite fields with many rational points: Constructions using Hilbert Class Fields*, Rafiq Omar (UWC).

12.30 - 14.00: *Lunch.*

14.30 - 15.10: *On the number of non-isomorphic binary codes*, Marcel Wild (US).

15.10 - 15.40: *Tea/Coffee.*

15.40 - 16.20: *Towers of function fields II*, Brink van der Merwe (US).

19.00 — : *Workshop dinner.*

Friday 11 December:

9.30 - 10.30: *Maximal function fields and class field theory IV*, Peter Roquette (Heidelberg).

11.00 - 12.00: *Anabelian Geometry*, Florian Pop (Bonn).

12.30 - 14.00: *Lunch.*

14.00 - 16.00: *Opportunity for short talks.*

16.00 — : *Outing:* Visit to a wine farm.

Organizers: Barry Green, Brink van der Merwe.

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Contact Persons: At UCT, *Kenneth Hughes.* At UWC *Rafiq Omar.*
