

Workshop on the Arithmetic of Curves and Applications

Programme

University of Stellenbosch, 22 – 24 January 2003

Venue: *Department of Mathematics, Van der Sterr Building, 3021*

Organizers: Barry Green (Stellenbosch Univ.), Tsutomu Sekiguchi (Chuo Univ. Tokyo)

Wednesday 22 January

9.30 - 10.30: *F. Breuer*, The Andre-Oort conjecture in characteristic p

10.30 - 11.00: *Tea*

11.00 - 12.00: *K. Hughes*, Zeta and nil-theta

14.30 - 15.30: *L. Wessels*, On supersingular curves of genus 2 over finite fields

15.30 - 16.00: *Tea*

16.00 - 17.00: *T. Sekiguchi*, On the algorithm on the Jacobian varieties of curves (For the application to the public key cryptosystem)

Thursday 23 January

9.30 - 10.30: *K. Tsuchiya*, On the descriptions of $\mathbb{Z}/p^2\mathbb{Z}$ -torsors by the Kummer-Artin-Schreier-Witt theory

10.30 - 11.00: *Tea*

11.00 - 12.00: *A. Keet*, Explicit Towers of Drinfeld modular curves

14.30 - 15.30: *E. Lötter*, Asymptotically good towers of curves over finite fields

15.30 - 16.00: *Tea*

16.00 - 17.00: *G. Boxall*, Generalized Farey numbers

Friday 24 January

9.30 - 10.30: *J.P. Harper*, On the Gauss problem for function fields

10.30 - 11.00: *Tea*

11.00 - 12.00: *C. Maxson*, Forcing linearity numbers for modules over simple Noetherian rings

14.00 - 17.30: Outing

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