IMG-Number Theory Component

Volkswagen Foundation Workshop on
Arithmetic Geometry and Data Security
(Counting Points on Curves)

Department of Mathematics, University of Stellenbosch

9 − 12 April 2001

Organizers: *G. Frey, B. Green, H.-G. Rück*

Venue: *Van der Sterr Building 3021*

Monday 9 April:

14.00 - 15.00: *Curves with many rational points and modular curves I*, Hans-Georg Rück.

15.30 - 16.30: *Lifting problems and the André Oort conjecture*, Florian Breuer.

Tuesday 10 April:

9.30 - 10.30: *Curves with many rational points and modular curves II*, Arnold Keet.

11.00 - 12.00: *Counting points on elliptic curves*, Markus Wessler.

14.00 - 15.00: *Discrete Logarithm Systems and Arithmetic Geometry*, Gerhard Frey.

15.30 - 16.30: *Discrete Logarithm Systems and orders*, Florian Breuer.

Wednesday 11 April:

9.30 - 10.30: *Counting points on hyperelliptic curves using Monsky-Washnitzer cohomology I*, Barry Green.

11.00 - 12.00: *Discrete Logarithm Systems and the role of Galois Theory*, Gerhard Frey.

14.00 - 17.00: *Outing: Helderberg Nature Reserve.*

Thursday 12 April:

9.30 - 10.30: *Counting points on hyperelliptic curves using Monsky-Washnitzer cohomology II*, Barry Green.

11.00 - 12.00: *Discussion.*

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