

Echidna

The University of Sydney, Australia, July 15-19 2002
All talks will be held in 273 Carslaw, and tea in 727 Carslaw

Monday Programme

- 10:30-11:30 **Morning Tea**
- 11:30-12:30 John Coates
(Cambridge) *Euler characteristics and p -adic heights on elliptic curves*
- 12:30-2:30 **Lunch**
- 2:30-3:00 Robert Carls
(Groningen/Leiden) *Mestre's method for point counting on elliptic curves in char > 2*
- 3:00-4:00 **Afternoon Tea**

Tuesday Programme

- 9:30-10:30 Jaap Top
(Groningen) *Arithmetic of K3 surfaces with Picard number 19*
- 10:30-11:30 **Morning Tea**
- 11:30-12:30 Nils Bruin
(Simon Fraser) *Visualising $Sha[2]$ in abelian surfaces*
- 12:30-2:30 **Lunch**
- 2:30-3:00 Martin Prickett
(Nottingham) *Sieving for Mordell-Weil generators using the Tate-Lichtenbaum pairing*
- 3:00-4:00 **Afternoon Tea**

Wednesday Programme

- 9:30-10:30 Andreas Stein
(UIUC) *An update on solving elliptic curve discrete logarithm problems using Weil descent*
- 10:30-11:30 **Morning Tea**
- 11:30-12:00 Katsuyuki Takashima
(Mitsubishi) *Improvements in the genus 2 CM method*
- 12:00 **Afternoon Free**

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Thursday Programme

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|-------------|-------------------------------------|---|
| 9:30-10:30 | Bill McCallum
(Arizona) | <i>Jacobians of quintic genus one curves</i> |
| 10:30-11:30 | Morning Tea | |
| 11:30-12:30 | Everett Howe
(IDA-CCR) | <i>Forbidden Frobenius: A characteristic polynomial of no genus-two curve</i> |
| 12:30-2:30 | Lunch | |
| 2:30-2:45 | Peter Montgomery
(Microsoft/CWI) | <i>An efficient procedure to double and add points on an elliptic curve</i> |
| 3:00-4:00 | Afternoon Tea | |

Friday Programme

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|-------------|-----------------------------|---|
| 9:30-10:30 | David R. Kohel
(Sydney) | <i>CM points on $X_0(N)$ via p-adic lifts</i> |
| 10:30-11:30 | Morning Tea | |
| 11:30-12:30 | Noam D. Elkies
(Harvard) | <i>Points of low canonical height on elliptic curves and surfaces</i> |