Conference on Arithmetic Geometry and Applications

29 January - 2 February 2007

Stellenbosch University, South Africa

Monday 29 January	
09h00	Welcome
09h30 - 10h30	Bas Edixhoven: *Computing coefficients of modular forms*
11h00 - 12h00	Gerhard Frey: *Discrete logarithms, duality and arithmetic in Brauer groups*
	lunch
14h30 - 15h30	Andrei Yafaev: *On the Andre-Oort conjecture*
16h00 - 16h40	Shinji Miura: *On certain subcovers of the Hermitian curve*

Tuesday 30 January	
09h00 - 10h00	Michel Matignon: *p-Groups and automorphism groups of curves in char. $p > 0$*
10h30 - 11h30	Marco Garuti: *p-adic representations of the fundamental group scheme*
12h00 - 12h30	Jean Gillibert: *Geometric Galois module structure and abelian varieties of higher dimension*
	lunch
14h30 - 15h30	Moshe Jarden: *The absolute Galois group of the field of totally S-adic numbers*
16h00 - 16h40	Yoshinori Hamahata: *On mixed Drinfeld modular forms*

Wednesday 31 January : Symposium at AIMS	
09h00	Drive to AIMS, Cape Town
10h00 - 11h00	Jasbir Chahal: *Origin of the Riemann hypothesis, its generalizations, analogs and what good they are for?*
11h30 - 12h30	Hans-Georg Rück: *Elliptic Curves and Drinfeld Modules*
	lunch
Afternoon	Outing to Cape Point

Thursday 1 February	
09h00 - 10h00	Fumiyuki Momose: *Classification of Weil restrictions obtained by $(2, \ldots, 2)$-coverings of $\mathbb{P}^1$*
10h30 - 11h30	Sebastian Petersen: *Root numbers and the rank of abelian varieties over large fields*
12h00 - 12h30	Koos van Zyl : *The great comet of 2007*
	lunch
14h30 - 15h30	Victor Abrashkin: *π-divisible groups coming from Drinfeld modules and their generalisations*
16h00 - 17h00	Koichiro Akiyama: *A public-key cryptosystem using algebraic surfaces*
19h00 - 22h00	Dinner at *The Brazen Head*

Friday 2 February	
09h00 - 10h00	Elad Paran: *Split embedding problems over complete domains*
10h30 - 11h30	Werner Lütkebohmert: *An Application of Rigid Geometry to Diophantine Geometry*
12h00 - 12h30	Ernest Lötter: *New explicit towers of function fields over finite fields*
	lunch
14h30 - 15h00	free slot
15h30 - 16h00	free slot