# **Explicit Methods** in Number Theory:

Conference in Honour of John Cremona's 60th Birthday 4-8 April 2016



### **Programme**

#### All lectures will be held in Room MS.02, Mathematics Institute

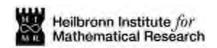
#### **Monday 4 April**

08:30-09:15	Registration and coffee in the Mathematics Institute Common Room	
09:15-10:15	Hendrik Lenstra (Leiden)	Abelian automorphisms towers
10:15-11:00	Coffee and tea break in the Undergraduate Workroom A0.05	
11:00-12:00	Henri Cohen (Bordeaux)	L-functions and modular forms in Pari/GP
12:00-14:00	Lunch in the Undergraduate Workroom A0.05	
14:00-15:00	Haluk Sengun (Sheffield)	Mod p automorphic forms
15:00-15:45	Coffee and tea break in the Undergraduate Workroom A0.05	
15:45-16:45	Tony Scholl (Cambridge)	Special values of L-functions
17:00-18:15	Wine reception in the Mathematics Institute Common Room	
18:30	Conference dinner at Scarma	an

## **Tuesday 5 April**

09:15-10:15	Tom Fisher (Cambridge)	Binary quartics and the Cassels-Tate
		pairing
10:15-11:00	Coffee and tea break in the Undergraduate Workroom A0.05	
11:00-12:00	Lassina Dembele (Warwick)	On the existence of abelian surfaces with
		everywhere good reduction
12:00-14:00	Lunch in the Undergraduate Workroom A0.05	

Continued over



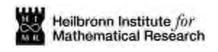






## Programme cont.

	14:00-15:00	Lynne Walling (Bristol)	Explicit action of Hecke operators on half-integral weight Siegel Eisenstein series	
	15:00-15:45	Coffee and tea break in the U	ndergraduate Workroom A0.05	
			st Visiting Professor) Computing tables of elliptic curves over $\mathbb{Q}(i)$	
	Wednesday	6 April		
	09:15-10:15	Michael Stoll (Bayreuth)	The Generalized Fermat equation $x^2+y^3=z^{11}$	
	10:15-11:00	O Coffee and tea break in the Undergraduate Workroom A0.05		
	11:00-12:00	Samir Siksek (Warwick)	Semistability and Serre's uniformity	
	12:00	Lunch in the Undergraduate V	Vorkroom A0.05	
		Free Afternoon.		
	Thursday 7 A	April		
	09:15-10:15	Andrew Sutherland (MIT)	Torsion subgroups of rational elliptic curves over the compositum of all cubic fields	
	10:15-11:00	Coffee and tea break in the Undergraduate Workroom A0.05		
		Barinder Banwait (Essen)	Traces of Frobenius and an inverse Galois Problem for cubic surfaces over finite fields	
	12:00-14:00	-14:00 Lunch in the Undergraduate Workroom A0.05		
	14:00-15:00	Denis Simon (Caen)	Squares represented by cubic forms	
	15:00-15:45	Coffee and tea break in the Undergraduate Workroom A0.05		
	15:45-16:45	Soma Purkait (Kyushu)	Hecke algebras, new vectors and	
			characterization of the new space	
Friday O April				
	Friday 8 Apri		A positive properties of plant subjected	
	09:15-10:15	ivianjui Bhargava (Princeton)	A positive proportion of plane cubics fail (respectively satisfy) the Hasse principle	
	10:15-11:00	Coffee and tea break in the U	ndergraduate Workroom A0.05	



11:00-12:00 **Bryan Birch** (Oxford)



12:00-13:00 Lunch in the Undergraduate Workroom A0.05 and departure



Insoluble curves

