

# Noncommutative Geometry and geometry over the field with one element

Vanderbilt University, May 15-18, 2008

## Workshop Schedule

Thursday, May 15, 2008

10:00-11:00 a.m.	L. Carbone (Rutgers U.)	Kac-Moody groups, finite fields and Tits' geometries
11:00-11:30 a.m.	<b>Coffee Break</b>	
11:30-12:30 p.m.	C. Soulé (IHES)	Algebraic varieties over $\mathbb{F}_1$
	<b>Lunch Break</b>	
2:15-3:15 p.m.	N. Ramachandran (U. Maryland)	Zeta functions and motives (d'après Manin)
3:20-4:20 p.m.	J. Morava (JHU)	K-theory of ring objects in homotopy theory
4:20-5:00 p.m.	<b>Coffee Break</b>	
5:00-6:00p.m.	E. Ha (JHU)	An overview of Durov's concept of the field of one element

**Friday, May 16, 2008**

10:00-11:00 a.m.	A. Connes (IHES)	BC system and $\mathbb{F}_1$ (part I)
11:00-11:30 a.m.	<b>Coffee Break</b>	
11:30-12:30 p.m.	H. Moscovici (Ohio State U.)	Spectral triples and $\mathbb{Q}$ -lattices
	<b>Lunch Break</b>	
2:15-3:15 p.m.	K. Consani (JHU)	BC system and $\mathbb{F}_1$ (part II)
3:25-4:25 p.m.	J. B. Bost (Orsay)	Dimension over $\mathbb{F}_1$ of spaces of sections of hermitian vector bundles
4:25-5:00 p.m.	<b>Coffee Break</b>	
5:00-6:00p.m.	L. Guo (Rutgers U.)	Algebraic continuation of multiple zeta values by renormalization

Saturday, May 17, 2008

10:00-11:00 a.m.	D. Goss (Ohio State U.)	The phenomena of bounded sum of $p$ -adic digits at both the positive and negative integers
11:00-11:30 a.m.	<b>Coffee Break</b>	
11:30-12:30 a.m.	J. Plazas-Vargas (IHES)	Endomotives, abelian varieties and real multiplication
	<b>Lunch Break</b>	
2:15-3:15 p.m.	C. Popescu (U. California S. Diego)	1-Motives and Equivariant Iwasawa Theory
3:25-4:10 p.m.	A. Banerjee (JHU)	Periodicity in cyclic cohomology and monodromy at archimedean infinity
4:10-4:40 p.m.	<b>Coffee Break</b>	
4:40-5:30p.m.	N. Larsen (U. of Oslo)	Phase transition in the Bost-Connes $\mathbb{C}^*$ -dynamical systems from number fields

**Sunday, May 18, 2008**

9:00-10:00 a.m.	M. Kalkhali (U. of Western Ontario)	Hopf cyclic cohomology in braided monoidal categories
10:10-10:55 p.m.	B. Rangipour (University of New Brunswick)	Hopf algebras arising from formal vector fields on the real line and their Hopf cyclic cohomology
10:55-11:20 a.m.	<b>Coffee Break</b>	
11:20-12:10 p.m.	Neshveyev (U. of Oslo)	On von Neumann algebras arising from Bost-Connes type systems
	<b>Lunch Break</b>	
1:15-2:00 p.m.	S. Mahanta (U. of Toronto)	Some remarks on schemes over $\mathbb{F}_1$
2:15-3:00 p.m.	A. Kaygun (Ohio State U.)	Products in Hopf-cyclic (co)homology
3:00-3:30 p.m.	<b>Coffee Break</b>	
3:30-4:15 p.m.	G. Cornelissen (Utrecht U.)	Toroidal automorphic forms and Riemann zeros for some function fields