

# Workshop on KK-Theory and its Applications

July 20 - July 24, 2009

Westfälische Wilhelms-Universität Münster

Paul Baum	Equivariant K-homology
Jacek Brodzki	A Mayer-Vietoris sequence for metric spaces
Marius Dadarlat	E-theory for $C^*$ -algebras over a space
Heath Emerson	Equivariant correspondences and applications
Pierre Julg	$C^*$ -algebras and Harish-Chandra theory
Eberhard Kirchberg	Cone-dependent KK-theory
Xin Li	The K-groups of certain ring $C^*$ -algebras and a duality theorem for global fields
Vladimir Manuilov	Asymptotic homomorphisms and tensor products of $C^*$ -algebras
Ralf Meyer	Non-Hausdorff symmetries of $C^*$ -algebras
Ryszard Nest	Spectral flow formulas and KMS states
N. Christopher Phillips	Algebraic K-theory of properly infinite $C^*$ -algebras
Roger Plymen	Base change and K-theory for $GL(n, R)$
Michael Puschning	New examples of holomorphically closed subalgebras of group $C^*$ -algebra
Klaus Thomsen	Extensions of the reduced group $C^*$ -algebra of a free product of amenable groups
Evgenij V. Troitsky	An index theorem in the gauge-equivariant K-theory
Jean-Louis Tu	On the coarse Baum-Connes conjecture with coefficients
Otgonbayar Luye	The Baum-Connes Conjecture for KK-theory
Wilhelm Winter	Towards a bivariant Cuntz semigroup
Jochim Zacharias	Constructing spectral triples on $C^*$ -algebras

Organising committee:

S. Echterhoff, W. Lück, R. Nest, W. Paravicini, R. Wulkenhaar

All **talks** take place in the lecture building next to the main building of the department.

**Coffee** will be served in seminar room SR0 on the ground floor of the main building.

There are several places to have **lunch** close to the department, the standard choice is the student cafeteria (just follow the crowd).

On Thursday evening, we will have a **barbecue** in the garden of the SFB building, Hittorfstraße 27 (close to the department).

Because the university is still in session, our talks cannot be all in the same lecture hall (see the colour code below).

Moreover, there are several **departmental events**:

- Wednesday, 11:15 AM, Roman Sauer will give his **habilitation lecture** on Szemerédi's theorem (in German). Although this lecture is not part of the workshop program everybody is invited to attend it in M5.

- On Wednesday, 2:15 PM, the Ph.D. graduation ceremony of the department will be held in M2.

- This week's talk in the departmental **colloquium** will be delivered by Gerhard Huisken on „Isoperimetrische Ungleichung und Masse in der Allgemeinen Relativitätstheorie“ on Thursday, 4:30 PM, in M5.

lecture halls		
M2	M3	M5

Workshop on KK-Theory and its Applications				
Monday July 20	Tuesday July 21	Wednesday July 22	Thursday July 23	Friday July 24
	9:00 AM <b>Otgonbayar Uuye</b>	9:00 AM <b>Michael Puschnigg</b>	9:00 AM <b>Eberhard Kirchberg</b>	9:00 AM <b>Vladimir Manuilov</b>
	10:00 AM <b>Xin Li</b>	10:00 AM <b>Jean-Louis Tu</b>	10:00 AM <b>Wilhelm Winter</b>	10:00 AM <b>Jacek Brodzki</b>
	coffee break	coffee break	coffee break	coffee break
	11:10 AM <b>Paul Baum</b>	11:15 AM <b>Roman Sauer</b> (Habilitation)	11:10 AM <b>Marius Dardalat</b>	11:10 AM <b>Klaus Thomsen</b>
12:00 - 12:30 registration	12:00 - 12:30 registration		lunch break	
	lunch break			
2:00 PM <b>Roger Plymen</b>	2:00 PM <b>Ralf Meyer</b>		2:00 PM <b>Chris Phillips</b>	
2:55 PM <b>Heath Emerson</b>	2:55 PM <b>Pierre Julg</b>		3:00 PM <b>Joachim Zacharias</b>	
3:45 PM coffee break	3:45 PM coffee break		3:50 PM coffee break	
4:15 PM <b>Evgenij Troitsky</b>	4:15 PM <b>Ryszard Nest</b>		4:30 PM <b>G. Huisken</b> (Kolloquium)	
			5:30 PM <b>KK-BBQ</b>	