

Singular Traces and their Applications

PROGRAM

Monday

- 14h30 - 15h00 Opening
- 15h05 - 15h55 **Steven Lord:** Connes' trace theorem is true for any trace
- 16h00 - 16h50 **Ubertino Battisti:** Weyls Law on *SG*-Calculus and on Bi-singular Calculus
- 16h50 - 17h20 Coffee
- 17h20 - 18h10 **Farzad Fathizadeh:** Scalar curvature for the noncommutative two-torus
- 19h30 - 21h00 Dinner

Tuesday

- 07h00 - 08h20 Breakfast
- 08h30 - 09h20 **Albrecht Pietsch:** Traces on operator ideals and related linear forms on sequence ideals
- 09h25 - 10h15 **Johannes Kellendonk:** Spectral triples from stationary Bratteli diagrams and substitution tilings
- 10h15 - 10h45 Coffee
- 10h45 - 11h35 **Gary Weiss:** Brief introductions to: I. An infinite dimensional Schur-Horn theorem and majorization theory II. A codimension conjecture for traces III. History and some recent progress on single commutators
- 11h40 - 12h30 **Dmitriy Zanin:** Singular traces in symmetrically normed operator ideals
- 12h35 - 14h00 Lunch
- 16h45 - 17h15 Coffee
- 17h15 - 18h05 **Mickael Whittaker:** KMS states for self-similar group actions
- 18h10 - 19h00 **Cyril Levy:** Spectral triples and manifolds with boundary
- 19h30 - 21h00 Dinner

Wednesday

- 07h00 - 08h20 Breakfast
- 08h30 - 09h20 **Evgeniy Semenov:** Extreme points of the set of Banach limits
- 09h25 - 10h15 **Tommaso Isola:** Spectral triples for the Sierpinski gasket (I)
- 10h15 - 10h45 Coffee
- 10h45 - 11h35 **Daniele Guido:** Spectral triples for the Sierpinski gasket (II)
- 11h40 - 12h30 **Miroslav Engliš:** Hankel operators and the Dixmier trace
- 12h35 - 14h00 Lunch
- 16h45 - 17h15 Coffee
- 17h15 - 18h05 **Jouko Mickelsson:** Characteristic classes of certain infinite rank vector bundles
- 18h10 - 19h00 **Denis Potapov:** Measures from Dixmier traces
- 19h30 - 21h00 Dinner

Thursday

- 07h00 - 08h20 Breakfast
- 08h30 - 09h20 **Mariusz Wodzicki:** Megatrace
- 09h25 - 10h15 **Partha Chacraaborty:** Instances of equivalence of two approaches to Yang-Mills in NCG
- 10h15 - 10h45 Coffee
- 10h45 - 11h35 **Aleksandr Sedaev:** The notion of Connes' measurable elements and stabilizing subsets in Marcinkiewicz spaces
- 11h40 - 12h30 **Sylvie Paycha:** Local traces versus global traces; the canonical trace versus the noncommutative residue
- 12h35 - 14h00 Lunch
- 17h00 - 17h30 Coffee
- 19h30 - 21h00 Dinner

Friday

- 07h00 - 09h00 Breakfast
- 09h25 - 10h15 **Mariuz Ionescu:** Pseudo-differential operators on fractals
- 10h15 - 10h45 Coffee
- 10h45 - 11h35 **Elmar Schrohe:** Regularity of the eta function for boundary value problems
TBA
- 11h40 - 12h30 **Alexander Usachev:** Generalized limits with additional invariance properties and their applications
- 12h35 - 14h00 Lunch
- 16h15 - 16h45 **Jireh Loreaux:** Subideals
- 16h45 - 17h15 Coffee
- 17h15 - 19h00 Open Problems Session
- 19h00 - 20h30 Dinner

Saturday

- 07h00 - 08h20 Breakfast
- 09h00 - 11h00 Round table and non official talks