

ZVR 298034776

Noncommutative geometry, scattering theory and the Witten index

January 31 - February 4, 2011

organized by A.L. Carey (ANU), H. Grosse (Vienna), F. Gesztesy (Missouri), F. Sukochev (UNSW)

- Monday, January 31
 - 14:30 15:30: Adam Rennie: Nonunital Index formulas

15:30 - 16:00: coffee

16:00 – 17:00: Victor Gayral: Noncompact noncommutative Geometries

• Tuesday, February 1

10:00 – 11:00: **Fritz Gesztesy**: *The index formula and the spectral shift function for relatively trace class perturbations*

11:00 – 11:30: **coffee**

11:30 – 12:30: Fritz Gesztesy: Index regularizations and the Witten index

12:30 - 14:30: lunch

14:30 – 15:30 Matthias Lesch: Chern-Connes character for manifolds with boundary

• Wednesday, February 2

10:00 – 11:00: Yuri Tomilov: Fredholm index and hyperbolicity

11:00 – 11:30: **coffee**

11:30 – 12:30: Fedor Sukochev: Relatively bounded and relatively trace class perturbations

12:30 – 14:30: **lunch**

14:30 – 15:30: Alexander Pushnitski: Scattering matrix and the spectral theory of discontinuous functions of self-adjoint operators

Thursday and Friday are to be arranged.

All lectures take place in the ESI Schrödinger Lecture Hall