



Leibniz
Universität
Hannover

Oberseminar Analysis und Theoretische Physik

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K-homology and index theory on Lie manifolds

I consider so-called Lie manifolds, which can be viewed as an axiomatization of numerous different types of compactifications of complete non-compact manifolds with bounded geometry and prescribed behavior "at infinity". On such manifolds there is a pseudo-differential calculus and one can consider fully elliptic operators which give rise to Fredholm operators on appropriate Sobolev spaces. A problem, proposed by Victor Nistor, asks for a general index formula of Atiyah-Singer type, valid for Fredholm pseudodifferential operators contained in the Lie calculus. In this talk, which is based on joint work with Jean-Marie Lescure, I present a solution to the problem.

**Dienstag, 20.11.2018, 15:00 Uhr, Raum c311
Hauptgebäude der Leibniz Universität**

Dazu laden herzlich ein:

Prof. Dr. Wolfram Bauer, Prof. Dr. Joachim Escher,
Prof. Dr. Elmar Schrohe, Prof. Dr. Christoph Walker