Oberseminar Analysis und Theoretische Physik

102

1004

Dr. Jens Kaad Radboud University Nijmegen

The product of a spectral triple and a finitely generated module

One of the challenges that arises when studying the geometry of noncomplete manifolds is that the Dirac operator usually fails to be essentially selfadjoint and might even fail to have selfadjoint extensions. In this talk I will consider the problem of restricting a Dirac operator on a complete manifold to an essentially selfadjoint differential operator on an open subset by applying a conformal change of the Riemannian metric. This operation can be understood in the much broader framework of unbounded KK-theory and it then becomes a (rather specific) example of the unbounded Kasparov product. In the talk I will explain how to form the unbounded Kasparov product by a finitely generated module and show how this construction describes the restriction of Dirac operators to open subsets.

Dienstag, 10.11.2015, 15:00h, Raum g005 Hauptgebäude der Leibniz Universität

Dazu laden herzlich ein: Prof. Dr. Wolfram Bauer Prof. Dr. Joachim Escher Prof. Dr. Olaf Lechtenfeld Prof. Dr. Elmar Schrohe Prof. Dr. Christoph Walker

Weitere Informationen finden Sie auch unter http://www.ifam.uni-hannover.de/os_analysis.html