Leibniz Universität Hannover

Oberseminar
Analysis und Theoretische Physik

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Elliptic complexes with generalized Atiyah-Patodi-Singer boundary conditions

Given a complex of differential (or pseudodifferential) operators on a manifold with boundary, which is exact on the level of principal symbols, we show that a certain topological obstruction (the Atiyah-Bott obstruction for complexes) decides whether or not the complex can be completed by "standard" boundary conditions to a Fredholm problem (standard means here conditions belonging to Boutet de Monvel's algebra for boundary value problems). In case the obstruction is violated, we show that one can always choose boundary conditions of generalized Atiyah-Patodi-Singer type (generalized spectral boundary conditions) to achieve a Fredholm problem.

Dienstag, 12.4.2016, 15:00h, Raum c311
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