Leibniz Universität Hannover

Oberseminar
Analysis und Theoretische Physik

Dr. Chen Xi

Fudan University, Shanghai (z.Zt. Riemann Center LUH)

Stein-Tomas restriction theorem via spectral measure on metric measure spaces

The Stein-Tomas restriction theorem on Euclidean space says that one can meaningfully restrict the Fourier transform of L^p functions to the unit sphere of $R^n with 1 < p < 2(n+1)/(n+3)$. This result can be rewritten in terms of the estimates for the spectral measure of Laplacian. Guillarmou, Hassell and Sikora formulated a sufficient condition of the restriction theorem, via spectral measure, on abstract metric measure spaces. But they only gave the details of the proof in a special case. We aim to give a complete proof. Additionally we shall apply this result to the restriction theorem on asymptotically conic manifolds.

Dienstag, 24.5.2016, 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