

Workshop Exploratoriu
Direcții actuale și de perspectivă în cercetarea matematică
17, 18 Septembrie 2008, București, Romania

Applications of Operator Algebra in Number Theory
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The analysis of discrete group actions as initiated by A Connes in the Noncommutative Geometry framework is applied to the study of the spectral gap for Hecke operators acting on Maass waveforms.

The talk is based on results obtained in the following paper: *Type II_1 Von Neumann representations for Hecke operators on Maass forms and inequalities for their eigenvalues*, <http://arxiv.org/abs/0802.3548>