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# Algebra of Operators on Hilbert Space and Semigroups in Number Theory

Mittwoch, den 23. Jan. 2013 • 16:15 Uhr

Mathematik Ost (Emil-Fischer-Straße 40), Seminarraum SE 40 (Raum 00.001)

**Inhaltsangabe**

A C*-algebra is an algebra of operators on a Hilbert space which is closed for the operator norm and invariant under the operation of taking the adjoint of an operator. One important element for the understanding of such an algebra is given by topological invariants which are analogous to and generalize the cohomology groups of a locally compact space. We discuss some examples that arise from actions of groups or semigroups. Some of these examples are related to concepts from elementary number theory. If time permits we will also briefly describe a still somewhat mysterious connection of the result in the latter case to the structure of KMS-states (equilibrium states) for a certain dynamical system.

www.mathematik.uni-wuerzburg.de/kolloquium.html

Zu diesem Vortrag laden wir Sie herzlich ein.
Im Anschluss an die Vorträge Kaffee und Tee im Foyer vor dem SE 40.

Die Dozentinnen und Dozenten der Mathematik