Mathematische Institute der WWU – Kolloquium Wilhelm Killing

An analog of the Beurling-Lax theorem and Quantum Field Theory

Professor Roberto Longo (University of Rome)
10.05.2012, 16:30 Uhr, Hörsaal M 5

The classical Beurling-Lax theorem characterizes the Hilbert subspaces of H^2 of the upper complex plane that are invariant under positive translations in terms of inner functions. I will describe an abstract real analog of this theorem by means of real subspaces and representations of $SL(2, \mathbb{R})$. I will discuss how, by this result, one can build up new families of boundary Quantum Field Theory nets of von Neumann algebras. (Joint work with E. Witten.)

Tee wird ab 16:00 Uhr im Sitzungszimmer SR 0 des Mathematischen Instituts serviert.

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