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Mackey analogy in periodic cyclic homology

Monday, February 24, 2025 4:30 PM (45 minutes)

Crossed product algebras are fundamental objects that describe actions of a Lie group G on a Fréchet algebra A . In this talk we will consider the convolution algebra of compactly supported smooth functions on G with values in A . Using geometrical arguments, we will canonically identify the periodic cyclic homology of this crossed product (up to a dimension shift) with the homology of the crossed product associated to a maximal compact subgroup. In this way we extend the results established by V. Nistor in the early 90' and provide a Mackey analogy in this framework.

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