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Classification by Morita equivalence.

ABSTRACT. We give a brief introduction to Morita equivalence of Banach algebras. This will be applied to convolution algebras on compact groups and on discrete semigroups. In the first case this leads to classification by traces with values in a commutative Banach algebra. In the second case it leads to classification in terms of the Hochschild homology of the groups associated with completely 0-simple subquotients. This is work in progress.