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Morita equivalence for Quantum Heisenberg Manifolds

Quantum Heisenberg manifolds were constructed by M. Rieffel as a quantization deformation of certain homogeneous spaces H/N_c , H being the Heisenberg group. We describe Morita equivalence within this family by adapting to this setting some of the techniques employed in the analogous discussion for non-commutative tori and Heisenberg C^* -algebras. One of the main tools employed is the generalization of a result of P. Green and M. Rieffel about Morita equivalence of transformation group C^* -algebras corresponding to two commuting free and proper actions on a topological space; this result is generalized to the context of crossed products by Hilbert C^* -bimodules.