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On the complete representability of convolution algebras of quantum groups as operator algebras

A (completely contractive) Banach algebra \mathcal{A} is called (completely) representable as an operator algebra if there is a (complete) isomorphism from \mathcal{A} into a closed subalgebra of $B(H)$, and we will focus on the case of convolution algebras $\mathcal{A} = L^1(\mathbb{G})$ of locally compact quantum groups \mathbb{G} . The complete answer for locally compact groups G and their duals \widehat{G} , and several recent results for locally compact quantum groups \mathbb{G} will be presented.