

Non-commutative Function Spaces

Let G be a locally compact group and $VN(G)$ be the von Neumann algebra generated by left translation operators on $L^2(G)$. When G is abelian, $VN(G)$ is isometrically isomorphic to $L^\infty(\widehat{G})$, the space of essentially bounded measurable functions on the dual group \widehat{G} of G . In the talk, I shall discuss a non-commutative analogue of the space of bounded uniformly continuous functions on \widehat{G} and other subspaces of $VN(G)$, and their dual Banach algebras.