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Harmonic Operators on LC Quantum Groups

In this talk we consider the space of μ -harmonic operators in $L^\infty(\mathbb{G})$, where \mathbb{G} is a locally compact quantum group, and $\mu \in C_0(\mathbb{G})^*$ is a quantum probability measure. We discuss quantum versions of various classical results, along with some applications. This talk is partly based on joint work with Matthias Neufang and Zhong-Jin Ruan.