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Tracial and G-invariant States on Quantum Groups

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For a discrete group G, the tracial states on its reduced group C^* -algebra $C^*_r(G)$ are exactly the conjugation invariant states. This makes the traces on $C^*_r(G)$ amenable to group dynamical techniques. In the setting of a discrete quantum group G, there is a quantum analog of the conjugation action of G on $C^*_r(G)$. Recent work of Kalantar, Kasprzak, Skalski, and Vergnioux shows that G-invariant states on the quantum group reduced C^* -algebra $C_r(\widehat{\mathbb{G}})$ are in one-to-one correspondence with certain KMS-states, exhibiting a disparity between tracial states and G-invariant states unless G is unimodular. We will show there is still enough of a connection between traceability and G-invariance to say interesting things about the tracial states of $C_r(\widehat{\mathbb{G}})$.

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