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Quantum moduli algebras at roots of unity

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We prove that the graph algebra and the quantum moduli algebra associated to a punctured sphere and complex semisimple Lie algebra $\mathfrak{g}$ are Noetherian rings and finitely generated rings over $mc(q)$. Moreover, we show that these two properties still hold on $mc[q, q^{-1}]$ for the integral version of the graph algebra. We also study the specializations $Ll^e_{0,n}$ of the graph algebra at a root of unity e of odd order, and show that $Ll^e_{0,n}$ and its invariant algebra under the quantum group $U_{e(\mathfrak{g})}$ have classical fraction algebras which are central simple algebras of PI degree that we compute.

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