## QUANTUM SUBGROUPS OF $GL_{\alpha,\beta}(n)$

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## Abstract

Let  $\alpha, \beta \in \mathbb{C} \setminus \{0\}$  and  $\ell \in \mathbb{N}$ , odd with  $\ell \geq 3$ . We determine all Hopf algebra quotients of the quantized coordinate algebra  $\mathcal{O}_{\alpha,\beta}(GL_n)$  when  $\alpha^{-1}\beta$  is a primitive  $\ell$ -th root of unity and  $\alpha, \beta$  satisfy certain mild conditions, and we caracterize all finite-dimensional quotients when  $\alpha^{-1}\beta$  is not a root of unity. As a byproduct we give a new family of non-semisimple and non-pointed Hopf algebras with non-pointed duals which are quotients of  $\mathcal{O}_{\alpha,\beta}(GL_n)$ .