

1164-16-154

Jordan Disch* (jdisch@iastate.edu). *Generic Gelfand-Tsetlin Representations of Twisted Quantized Orthogonal Algebras.*

We construct infinite-dimensional representations of twisted quantized orthogonal algebras when $n = 3$ and when $n = 4$. These algebras are coideal subalgebras of $U_q(\mathfrak{gl}_n)$, and are examples of quantum symmetric spaces and ι quantum groups. The representations we construct are infinite-dimensional analogs to those provided by Gavrilik and Klimyk. We examine sufficient conditions for irreducibility and finite length. (Received January 17, 2021)