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Finite dimensional irreducible representations of some elementary unitary Lie algebras

We classify all finite dimensional irreducible representations of the elementary unitary Lie algebras $\mathfrak{eu}_n(\mathbb{C}_q, {}^{-})$ over the quantum torus with anti-involution $(\mathbb{C}_q, {}^{-})$ for $n \geqslant 5$. This is a joint work with Zhihua Chang and Yelong Zheng.