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Modules for Twisted Multiloop Algebras

Let $\mathfrak{g} \otimes \mathbb{C}[t_1^{\pm 1}, \ldots, t_N^{\pm 1}]$ be the Lie algebra of polynomial maps from the N-torus to a finite-dimensional simple Lie algebra $\mathfrak{g}$. Twisted multiloop algebras are fixed point subalgebras determined by any family of N commuting finite order automorphisms of $\mathfrak{g}$. In this talk, we describe the finite-dimensional simple modules of twisted multiloop algebras and classify these representations up to isomorphism.