LUCAS CALIXTO, University of Ottawa (Canada) and Unicamp (Brazil)

Equivariant Map Queer Lie Superalgebras

Map Lie (super)algebras are a large class of Lie (super)algebras that generalize the well-known loop and current Lie (super)algebras. More precisely, the map Lie superalgebra $M(X, \mathfrak{g})$ is the Lie superalgebra whose elements are regular maps from the algebraic variety X to the Lie superalgebra $\mathfrak{g}$. More generally, if Γ is a group acting on both X and $\mathfrak{g}$, then the *equivariant* map Lie superalgebra $M(X, \mathfrak{g})^\Gamma$ consists of the elements of $M(X, \mathfrak{g})$ that are Γ-equivariant. Our goal in this talk is to present a classification of all irreducible finite-dimensional representations of $M(X, \mathfrak{g})^\Gamma$ in the case that $\mathfrak{g}$ is the queer Lie superalgebra. In particular, this yields a classification of the irreducible finite-dimensional modules for twisted loop queer superalgebras. This is joint work with Adriano Moura and Alistair Savage.