Abstract

In this talk we are going to discuss on the description of irreducible cuspidal modules over n-Lie algebras of Wronskians and Jacobians. First, for a given n-Lie algebra $\mathcal{L}$, we analyze the possible Lie and Leibniz structures on $\bigwedge^{n-1}\mathcal{L}$ and $\otimes^{n-1}\mathcal{L}$ by thoroughly examining existing structures. Next, we present the classification of the irreducible cuspidal modules over the n-Lie algebra of Wronskians defined on Laurent polynomials with degree-preserving derivations. Furthermore, we show that these modules remain irreducible over the n-Lie algebra of Jacobians.