سخنران: علیرضا نصر اصفهانی

دانشگاه اصفهان و پژوهشگاه

عنوان:

On Lie algebras associated with representation-finite algebras

چکیده:

Let Λ be a representation-finite $\mathbb{C}$-algebra which has Hall polynomials, with the universal cover $\tilde{\Lambda}$ which is a locally bounded directed $\mathbb{C}$-algebra. In this paper we prove that the $\mathbb{Z}$-Lie algebra $L(\Lambda)$ associated with Λ which is defined by Riedtmann and the $\mathbb{Z}$-Lie algebra $K(\Lambda)$ associated with Λ which is defined by Ringel are isomorphic. As an application we show that if Λ is a representation-finite (generalized) cluster-tilted algebra or representation-finite trivial extension algebra, then $K(\Lambda) \cong L(\Lambda)$.

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