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Rigidity of Formal Characters of Lie algebras of type A

For a complex simple Lie algebra of type A , given a family of elements $f_\lambda \in \mathbb{Z}[\Lambda]$, $\lambda \in \Lambda^+$, we show that f_λ is just the formal character of the Weyl module $V(\lambda)$ if f_λ satisfies two natural conditions.

Keywords: Formal characters, tensor product, Weyl modules.

MSC: 17B10, 20G05