

代数宿題11

2014-12-26

1. Show that if $\lambda \notin \mathbb{Z}_{\geq 0}$, then the Verma module M_λ is an irreducible representation of $\mathfrak{sl}_2(\mathbb{C})$, and if $\lambda \in \mathbb{Z}_{\geq 0}$, then $M_{-\lambda-2}$ is a submodule of M_λ , with quotient V_λ .

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