

Simple Harish-Chandra modules over superconformal current algebras

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In this talk, we classify the simple Harish-Chandra modules over the superconformal current algebra $\widehat{g}$, which is the semi-direct sum of the $N=1$ superconformal algebra with the affine Lie superalgebra $\dot{g} \otimes A + C_1$, where $\dot{g}$ is a finite dimensional simple Lie algebra, and A is the tensor product of the Laurent polynomial algebra and the Grassmann algebra. As an application, we can directly get the classification results of the simple Harish-Chandra modules over the $N=1$ Heisenberg-Virasoro algebra.

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