

Abstract

We first construct many simple restricted modules for the $N=2$ Neveu-Schwarz algebra L . These modules contain the highest weight modules and Whittaker modules. Then we precisely characterize the simple restricted modules over L under certain conditions, and give several equivalent conditions for a simple L -module to be a restricted module. Finally, we prove that if one specific positive root element of L acts locally finite on a simple L -module V , then V is a restricted module.