

ABSTRACT. Haisheng Li showed that given a module  $(W, Y_W(\cdot, x))$  for a vertex algebra  $(V, Y(\cdot, x))$ , one can obtain a new  $V$ -module

$$W^\Delta = (W, Y_W(\Delta(x)\cdot, x))$$

if  $\Delta(x)$  satisfies certain natural conditions. Li presented a collection of such  $\Delta$ -operators for  $V = L(k, 0)$  (a vertex operator algebra associated with an affine Lie algebra,  $k$  a positive integer). In this paper, for each irreducible  $L(k, 0)$ -module  $W$ , we find a highest weight vector of  $W^\Delta$  when  $\Delta$  is associated with a minuscule coweight. From this we completely determine the action of these  $\Delta$ -operators on the set of isomorphism equivalence classes of  $L(k, 0)$ -modules.