

## **Abstract**

In this talk, we shall study the tensor products of irreducible highest weight modules with irreducible loop modules over the affine-Virasoro algebra with aid of the “shifting technique” established for the Virasoro algebra. All such tensor product modules are indecomposable modules with infinite-dimensional weight spaces. Moreover, we obtain the necessary and sufficient conditions for such tensor product modules to be irreducible. Therefore, we obtain a class of new irreducible weight modules over the affine-Virasoro algebra. Finally, the necessary and sufficient conditions for any two such tensor product modules to be isomorphic are also determined.