1126-17-222 McKay Sullivan* (smsulli4@ncsu.edu) and Bojko Bakalov. Fock Space Constructions of Twisted Logarithmic Modules.

Given an automorphism φ of a vertex algebra V, φ -twisted modules of V are useful in the construction of untwisted representations of the orbifold subalgebra of elements of V fixed by φ . Recently defined twisted logarithmic modules of vertex algebras allow us to choose φ to be non-semisimple. In the case when V is generated by free fields, we construct examples of such modules using highest weight representations of certain infinite-dimensional Lie algebras on a Fock space. We also briefly discuss the construction of twisted logarithmic modules of lattice vertex algebras. (Received January 14, 2017)