Meeting: 998, Houston, Texas, SS 19A, Special Session on Algebraic Geometry

998-14-339 Matt Szczesny* (szczesny@math.upenn.edu). Orbifold conformal blocks and the stack of pointed G-covers.

Starting with a vertex algebra V and a group G of automorphisms of V, we construct sheaves of twisted conformal blocks introduced in work with E. Frenkel over the moduli stack of pointed G-Covers. These sheaves come equipped with a projectively flat connection, generalizing the Knizhnik-Zamolodchikov connection over $M_{g,n}$. (Received March 01, 2004)