

Orbifold conformal blocks and the stack of pointed G -covers

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Abstract

We construct twisted D -modules of orbifold conformal blocks (defined in joint work with Edward Frenkel) on the stack of pointed G -covers introduced by Jarvis, Kaufmann, and Kimura. This yields an orbifold generalization of the Knizhnik-Zamolodchikov connection on the moduli of pointed curves.