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Hecke Operators

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In the context of the Analytic Version of the Geometric Langland correspondence, Hecke operators, and their eigenvalue properties, play a very important role.

In this work, we explicitly propose a representation of Hecke modification acting on conformal blocks for the H_3^+ WZW model away from the critical level limit. This proposal reduces to the known result in the literature once we restrict it to the critical level.

We use this construction to show explicitly that the Hecke Eigenvalue Property follows in this model as a consequence of the SOV transform between the correlation functions of the H_3^+ model and Liouville theory.

Summary

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