

Mapping Class Group Representations from Drinfel'd Doubles

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In axiomatic versions of conformal and topological field theory, the so-called spaces of conformal blocks are represented by spaces of homomorphisms in certain categories. In relatively recent work of S. Lentner, S. N. Mierach, C. Schweigert, and the speaker, these block spaces were generalized to the so-called derived block spaces by inserting projective resolutions at an additional puncture. In the present talk, we show how these derived block spaces can be explicitly computed in the case of the representation category of the Drinfel'd double of the symmetric group on three letters. The talk is again based on joint work with the authors mentioned above.

In Special Session 9 on Hopf Algebras and Tensor Categories at the Mathematical Congress of the Americas 2025.