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Towards a (3+1)-dimensional TQFT from TMF

Thursday 25 May 2023 11:35 (45 minutes)

I will discuss work in progress, joint with Sergei Gukov, Lennart Meier, and Du Pei. It concerns a construction of a 4-manifold invariant using the theory of topological modular forms, and TQFT properties of this invariant. This is a mathematical construction related to a particular instance of the Gukov-Pei-Putrov-Vafa program associating an invariant of 4-manifolds to certain 6-dimensional superconformal field theories.

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