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Involutions on (∞, n)-categories of Bordisms and Reflectopm TQFTs

Formally, a topological quantum field theory (TQFT) is a symmetric monoidal functor from a category of bordisms into an appropriate target category. Depending on the choice of bordism category, the theory may carry extra structure compatible with the monoidal structure — namely, an involution. By involution, we mean a $\mathbb{Z}/2$ action on the bordism category which is compatible with the monoidal structure. In this talk, I will outline how to get these actions on the (∞, n)-categories of bordisms defined by Calaque and Scheimbauer, and I will define reflection TQFTs, in the sense of Freed and Hopkins, in this setting. Furthermore, I will exemplify what kind of obstructions a reflection structure imposes on the point values of a theory.