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**Title:**

Bicommutant Categories from Conformal Nets, towards constructing fully extended functorial (Segal) chiral CFTs

**Abstract:**

We are working on the construction of a fully extended 2d chiral functorial field theory given the data of a conformal net. We introduce some ingredients of the target category of Bicommutant Categories (a proposed model for 3-Hilb) as a categorification of the Morita category of von Neumann algebras. We further give equivalent constructions of the category of solitons (solitonic representations of the conformal net) that we assign to a point with a germ of a 1-manifold in the conformal cobordism category. This is a bicommutant category whose Drinfeld center is Representations of the net. Further at the level of 1-morphisms, the composition of intervals maps to categorified Connes-Fusion.