

Alessandro Valentino on Boundary conditions for 3d TQFTs and module Categories

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with J. Fuchs & C. Schweigert, arXiv: 1203.4569
1307.3632

2-Vect has:

Objects: \mathbb{C} -linear finite semi-simple Abelian categories

1-mor: Linear functors.

2-mor: Natural transformations.

Def An ETQFT is a symmetric monoidal bi-functor

$$Z: \text{Ob}_{3,2,1}^{\text{or}} \longrightarrow 2\text{-Vect.}$$