

CLASSIFICATION AND RECONSTRUCTION OF MODULAR TENSOR CATEGORIES OF TYPE A

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Abstract: We first show that modular data (S-matrix and T-matrix) uniquely determine a modular tensor category of type A. Using this result, we prove a few open conjectures including the reconstruction problem for modular tensor categories of type A, which states that there exists a strongly rational VOA whose representation category is braided equivalent to a given modular tensor category of type A.