1163-47-572 **Roberto Hernandez Palomares*** (hernandezpalomares.1@osu.edu). *Realizations of unitary tensor categories over GJS C*-algebras.*

We show that an arbitrary countably generated unitary tensor category (aka rigid C*-tensor category) $\mathcal{C}$ acts on some simple separable monotracial C*-algebra B. This is, we realize $\mathcal{C}$ as a full subcategory of the finitely generated projective bimodules over B. The C*-algebra B depends only on $\mathcal{C}$ and is constructed using diagrammatic techniques from Gionnet-Jones-Shlyakhtenko. We recover the the realization of Brothier-Hartglass-Penneys as bifinite bimodules over an interpolated free group factor by means of a monoidal functor between these bimodule categories. Finally, we construct a simple separable monotracial C*-algebra that admits an action from every unitary fusion category. Based on joint work with M. Hartglass. (Received September 09, 2020)