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Roberto Hernandez Palomares* (hernandezpalomares.1@osu.edu). *Classifying unitary modules for generalized TLJ \ast -2-categories.*

Generalized Temperley–Lieb–Jones (TLJ) \ast -2-categories associated to weighted bidirected graphs were introduced by Morrison and Walker. We introduce unitary modules for these generalized TLJ \ast -2-categories as strong \ast -pseudofunctors into the \ast -2-category of separable bigraded Hilbert spaces. We classify these modules up to \ast -equivalence in terms of weighted bi-directed Γ -fair and balanced graphs in the spirit of Yamagami’s classification of fiber functors on TLJ categories and DeCommer and Yamashita’s classification of unitary modules for $\text{Rep}(SU_q(2))$. Based on joint work with G. Ferrer. (Received September 09, 2020)