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Thomas Kerler and **Yilong Wang**. *Braided Hopf algebra structures on the duals of coends of metaplectic categories*. Preliminary report.

Metaplectic categories are examples of weakly integral fusion categories. These categories are \mathbb{Z}_2 -graded and the zero-graded parts have the same fusion rules as the classical fusion rules of dihedral groups. In this work, we identify concrete quasi-triangular structures on the group algebras of dihedral groups whose representation categories are isomorphic to these sub-categories. Next, we discuss the coend $\int^X X \otimes X^*$ of a metaplectic category with applications to TQFTs in mind. As an example, we determine the braided Hopf algebra structure on the dual of the coend of the Ising modular category. (Received January 22, 2018)