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Yu Tsumura* (tsumura.2@osu.edu), 100 Math Tower 231 West 18th Avenue, Columbus, OH 43210. *The dihedral type subcategory of a metaplectic category*. Preliminary report.

A metaplectic modular category is a unitary modular category with the same fusion rules as $\mathrm{SO}(N)_2$ for some odd $N > 1$. A metaplectic category contains a subfusion category whose fusion rules are the same as the dihedral group of order $2N$. We study this subcategory in the hope that the information of this subcategory can be used to effectively compute some topological invariant defined using a metaplectic category. This is a joint work with Thomas Kerler and Yilong Wang. (Received August 28, 2016)