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Cain Edie-Michell, Masaki Izumi and **David Penneys*** (penneys.2@osu.edu), Department of Mathematics, 100 Math Tower, Columbus, OH 43210-1174. *Classification of $\mathbb{Z}/2\mathbb{Z}$ -quadratic unitary fusion categories.*

A unitary fusion category is called quadratic if there is a group of simple objects and one other orbit of simple objects under the group action. We give a complete classification of $\mathbb{Z}/2$ -quadratic unitary fusion categories. As a corollary, we complete the classification of rank 4 unitary fusion categories with a dual pair of simple objects. This is joint work with Cain Edie-Michell and Masaki Izumi (Received August 24, 2021)