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Oleksandra V Beznosova* (ovbeznosova@ua.edu). *Weighted $T(1)$ theorem and two weight inequalities for perfect dyadic operators.* Preliminary report.

We present a decomposition of perfect dyadic operators in the spirit of $T(1)$ theorem which allows us to lift $T(1)$ theorem for such operators to the weighted case and obtain two weight estimates for such operators. (Received January 17, 2016)