

# DUNKL–WILLIAMS INEQUALITY FOR OPERATORS ASSOCIATED WITH $p$ -ANGULAR DISTANCE

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ABSTRACT. We present several operator versions of the Dunkl–Williams inequality with respect to the  $p$ -angular distance for bounded linear operators acting on a Hilbert space. We obtain several equivalent conditions, when the case of equality holds. We also deduce some norm inequalities and get a generalization of the inequality in the framework of Hilbert  $C^*$ -modules.

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2000 *Mathematics Subject Classification.* Primary 47A63; Secondary 26D15.

*Key words and phrases.* Operator, Dunkl–Williams inequality,  $p$ -angular distance.