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Harmonic analysis associated with the Cherednik operators and the Heckman-Opdam theory

Abstract. By using the trigonometric Dunkl intertwining operators and their duels introduced by the author, we define and study the hypergeometric translation operators associated with the Cherednik operators $T_1, ..., T_d$ and the Heckman-Opdam theory. Next with the help of these translation operators we define and study the hypergeometric convolution product of functions and distributions associated with the operators $T_1, ..., T_d$ and the Heckman-Opdam theory.