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ON THE BOUNDEDNESS OF THE MAXIMAL
OPERATOR IN MORREY SPACES ASSOCIATED
WITH THE DUNKL OPERATOR ON THE REAL
LINE

Abstract

On the real line, the Dunkl operators are differential-difference operators associated with the reflection group \mathbb{Z}_2 on \mathbb{R} . We consider the generalized shift operator, associated with the Dunkl operator. We study some embeddings into the Morrey space (Dunkl-type Morrey spaces) associated with the Dunkl operator on \mathbb{R} . We obtain the boundedness of the Dunkl-type maximal operator in the Dunkl-type Morrey spaces. As applications we get boundedness of the Dunkl-type maximal operator in the Dunkl-type Besov-Morrey spaces.