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PARABOLIC FRACTIONAL MAXIMAL OPERATOR IN PARABOLIC LOCAL MORREY-TYPE SPACES

Abstract

In this paper, we study the boundedness of the parabolic fractional maximal operator in parabolic local Morrey-type spaces. We reduce the problem of boundedness of the parabolic fractional maximal operator M_α , $0 \leq \alpha < \gamma$ in general parabolic local Morrey-type spaces to the problem of boundedness of the supremal operator in weighted L_p -spaces on the cone of non-negative non-decreasing functions.