

TOEPLITZ TYPE OPERATORS ASSOCIATED TO SINGULAR INTEGRAL WITH VARIABLE KERNEL ON WEIGHTED MORREY SPACES

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Abstract. Let $T^{k,1}$ be singular integrals with variable Calderón-Zygmund kernels or $\pm I$ (the identity operator), let $T^{k,2}$ and $T^{k,4}$ be the linear operators, and let $T^{k,3} = \pm I$. Denote the Toeplitz type operator by

$$T^b = \sum_{k=1}^Q (T^{k,1} M^b I_\alpha T^{k,2} + T^{k,3} I_\alpha M^b T^{k,4}),$$

where $M^b f = bf$, and I_α is the fractional integral operator. In this paper, we investigate the boundedness of the operator T^b on weighted Morrey space when b belongs to weighted BMO space.

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