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*Two weight norm inequalities for fractional one-sided maximal and integral operators*

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**Abstract:** In this paper, we give a generalization of Fefferman-Stein inequality for the fractional one-sided maximal operator:

$$\int_{-\infty}^{+\infty} M_{\alpha}^{+}(f)(x)^p w(x) dx \leq A_p \int_{-\infty}^{+\infty} |f(x)|^p M_{\alpha p}^{-}(w)(x) dx,$$

where  $0 < \alpha < 1$  and  $1 < p < 1/\alpha$ . We also obtain a substitute of dual theorem and weighted norm inequalities for the one-sided fractional integral  $I_{\alpha}^{+}$ .

**Keywords:** one-sided fractional operators, weighted inequalities

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