

A note on Nakai's generalized Morrey spaces and applications
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Abstract:

We bring Nakai's generalized Morrey spaces to the one-sided weighted case. The one-sided weighted Morrey spaces are used to study the weak and strong type boundedness of one-sided sublinear operators satisfying certain size conditions. By the aid of one-sided Fefferman-Stein inequalities on one-sided weighted Morrey spaces, we also obtain the corresponding boundedness of one-sided discrete square function.