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Hardy-Sobolev inequalities for Sobolev functions in central Herz-Morrey spaces on the unit ball. (English) Zbl 0739.5586

Summary: Our aim in this paper is to establish Hardy-Sobolev inequalities for Sobolev functions and generalized Riesz potentials in central Herz-Morrey spaces on the unit ball. As an application, we obtain norm inequalities for Green potentials.

MSC:
46E30 Spaces of measurable functions (L^p-spaces, Orlicz spaces, Köthe function spaces, Lorentz spaces, rearrangement invariant spaces, ideal spaces, etc.)
31B15 Potentials and capacities, extremal length and related notions in higher dimensions
26D10 Inequalities involving derivatives and differential and integral operators

Keywords:
Hardy-Sobolev inequality; central Herz-Morrey spaces; Riesz potentials

Full Text: DOI

References:


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