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A two-weight inequality for the Bessel potential operator

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Abstract: Necessary conditions and sufficient conditions are derived in order that Bessel potential operator $J_{s,\lambda}$ is bounded from the weighted Lebesgue spaces $L_v^p = L^p(\mathbb{R}^n, v(x)dx)$ into L_u^q when $1 < p \leq q < \infty$.

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