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Hardy Type Inequalities For Integral Transforms Associated With A Singular Second Order Differential Operator

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Abstract: We consider a singular second order differential operator Δ defined on $]0, \infty[$. We give nice estimates for the kernel which intervenes in the integral transform of the eigenfunction of Δ . Using these results, we establish Hardy type inequalities for Riemann-Liouville and Weyl transforms associated with the operator Δ .



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