Schatten class operators on Dirichlet-type spaces

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ABSTRACT:

We study the membership in the Schatten-Von Neumann ideals of the integration operator

$$J_g f(z) = \int_0^z f(\zeta) g'(\zeta) d\zeta$$

acting on Dirichlet type spaces. We will see that this operator is also related with other well known operators, such as multiplication operators, Toeplitz operators or small and big Hankel operators.