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# Legendre-Fenchel transform of the spectral exponent of analytic functions of weighted composition operators

## **Abstract**

Let  $f$  be an analytic function with nonnegative coefficients. We derive the Legendre-Fenchel transform of the composition  $\ln \circ f \circ \exp$  as a function depending on coefficients of  $f$ . We apply it to obtain the variational principle for the spectral exponent of operators that can be written as analytic functions of the weighted composition operators.