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Legendre-Fenchel Transform of the Spectral Exponent of Analytic Functions of Weighted Composition Operators

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.