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**FUNCTIONAL EQUATIONS FOR MAHLER MEASURES OF
GENUS-ONE CURVES**

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The Mahler measure of an n -variable polynomial P is the integral of $\log|P|$ over the n -dimensional unit torus T^n with the Haar measure. For one-variable polynomials, this is a natural quantity that appears in different problems such as Lehmer's question. For the several-variable case many examples are known for which the Mahler measure is related to special values of L -functions. Consider a family of polynomials whose coefficients depend on one parameter. Then the Mahler measure is a function of that parameter. There are examples for which this function satisfies functional equations that may be deduced from modularity properties or evaluations of elliptic regulators following works by Rodriguez-Villegas, Deninger, and others. These equations may allow us to prove new identities of Mahler measures.

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