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Higher Mahler measure and Lehmer's question

The k -higher Mahler measure of a nonzero polynomial P is the integral of $\log^k |P|$ on the unit circle. I will discuss Lehmer's question for $k > 1$ and show some interesting formulae for 2- and 3-higher Mahler measure of cyclotomic polynomials. This is joint work with Kaneenika Sinha.