MATILDE LALIN, Universite de Montreal

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.