## MATILDE LALIN, Université de Montréal

The Mahler measure of triangular polynomials

The Mahler measure of a Laurent polynomial P is defined as the integral of  $\log |P|$  over the unit torus with respect to the Haar measure. For multivariate polynomials, it often yields special values of L-functions. In this talk we will consider the Mahler measure of polynomials of the form  $a(x) + b(x)y + c(x)z \in \mathbb{C}[x, y, z]$  where a(x), b(x), c(x) are products of cyclotomic polynomials. We will exhibit the variety of these formulas, that could range from  $\zeta(3)$  and dilogarithms to L(E, 3) (the L-function of an elliptic curve). This talk includes joint works with Jarry Gu and Siva Sankar Nair.