

# NUMBER THEORY SEMINAR

*Mahler measure and special values of  $L$ -functions*

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WHEN: Mon 29 Apr. 2013, 10:00 a.m.

WHERE: Chase 319

ABSTRACT:

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 I will discuss some of these relationships and the meaning behind them and present some results involving  $L(E, 3)$  for  $E$  an elliptic curve.

Any questions, please e-mail: [rnoble@mathstat.dal.ca](mailto:rnoble@mathstat.dal.ca).