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SEMINARIO DE GEOMETRÍA ALGEBRAICA

Jueves 12 de marzo de 2009, **13:00**, Seminario 238

Hershy Kisilevsky

Concordia University

Impartirá la conferencia

Critical values of derivatives of L-functions

Resumen.

Let $L(E/\mathbb{Q}, s)$ be the L -function of an elliptic curve E defined over the rational field \mathbb{Q} . If χ is a Dirichlet character of odd prime order such that $L(E, 1, \chi) = 0$, we examine the special values of the derivative. If $L'(E, 1, \chi)$ is non-zero, we provide computational evidence for an “explicit formula” for its value. We also have some cases of higher order special values in the case that $\text{ord}_{s=1} L(E, s, \chi) > 1$.