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Jorge Florez*, jflorez@bmcc.cuny.edu. *Explicit reciprocity laws for higher local fields.*

In this talk we present a generalization of Kolyvagin's explicit reciprocity laws to higher local fields. This involves explicit formulas for the generalized Kummer pairing associated to an arbitrary formal group, in terms of multidimensional p-adic derivations, the logarithm of the formal group, the generalized trace and the norm on Milnor K-groups. In the specific case of a Lubin-Tate formal group, these formulas give a higher-dimensional version of the explicit reciprocity laws of Artin-Hasse, Iwasawa and Wiles. (Received March 19, 2017)