Title: On Katz type p-adic L-functions

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Abstract:

Given a quadratic imaginary field K and an odd prime p, I will explain how to attach a p-adic L-function which interpolates the algebraic parts of the special values of the complex L-functions of K twisted by algebraic Hecke characters such that the p-part of their conductor is p^n (for n large enough
and explicitly determined). For p non split in K this construction extends a classical construction of N. Katz. This is joint work with Adrian Iovita.