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# Congruences L Functions Mathematics Applications J Urbanowicz

**congruences for l-functions - springer** - congruences for l-functions by jerzy urbanowicz institute of mathematics, polish academy of sciences, warszawa, poland and kenneth s. williams centre for research in algebra and number theory, **congruences of algebraic l-functions of motives - arxiv** - arxiv:1410.1347v1 [math.nt] 6 oct 2014 congruences of algebraic l-functions of motives olivier fouquet and jyoti prakash saha abstract we develop a framework to investigate conjectures on congruences between the algebraic **modular form congruences and selmer groups** - related to congruences between critical values of congruent l-functions. in this direction, dummigan generalizes his mod 11 example using works of hida [16] and stevens [33] on  $\Lambda$ -adic modular forms of integral and half-integral weight. he shows that if  $e$  is an elliptic curve with prime conductor  $p \equiv 3 \pmod{4}$  for which  $p - \text{ord } p(j(e))$  and  $l(e)$  **johnowitz congruences at residual primes** - expect congruences between the derivatives of the l-functions. there has been some progress in that direction by howard [16, 17] on gross-zagier type theorems in hida families. when the signs of the functional equation differ the central l-value of the one with sign 1 vanishes, while we expect the central l-value of the one with sign **congruences for fourier coefficients of half-integral ...** - l-functions, possess such congruence properties. these congruences are related to the non-triviality of the  $\ell$ -primary parts of shafarevich-tate groups of certain infinite families of quadratic twists of modular elliptic curves with conductors 11 and 14. 1. congruences for fourier coefficients first we shall fix the following notation. **congruence properties of values of l-functions and ...** - of l-functions and applications j. h. bruinier, k. james, w. kohlen, k. ono, c. skinner and v. vatsal dedicated to the memory of s. chowla 1. introduction ever since dirichlet's introduction of the analytic class number formula, special values of l-functions have been the subject of much study and speculation. in this paper we survey some ... **congruences between modular forms** - special values of dirichlet l-functions to corresponding eigenspaces of class groups of abelian extensions of  $q$ . the theory of congruences of modular forms can be (roughly) distinguished into two types: (1) congruences between hecke eigenforms, (2) congruences between classical holomorphic or meromorphic modular forms. **congruences between derivatives of abelian -functions at  $s = 0$**  - 1 congruences between derivatives of abelian l-functions at  $s = 0$  david burns abstract. let  $k/k$  be a finite abelian extension of global fields. we prove that a natural equivariant leading term conjecture implies a family of explicit congruence relations between the values at  $s = 0$  of derivatives of the dirichlet l-functions associated to  $k/k$ .we

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