

Mathematics and Its Applications

**Jerzy Urbanowicz
and Kenneth S. Williams**

Congruences for L-Functions



Springer Science+Business Media, B.V.

Congruences For L Functions

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Congruences For L Functions:

Congruences for L-Functions J. Urbanowicz, Kenneth S. Williams, 2013-03-09 In Hardy and Williams 1986 the authors exploited a very simple idea to obtain a linear congruence involving class numbers of imaginary quadratic fields modulo a certain power of 2 Their congruence provided a unified setting for many congruences proved previously by other authors using various means The Hardy Williams idea was as follows Let d be the discriminant of a quadratic field Suppose that d is odd and let $d = \prod p_i^{2\alpha_i}$ be its unique decomposition into prime discriminants Then for any positive integer k coprime with d the congruence holds trivially as each Legendre Jacobi Kronecker symbol has the value 1 or -1 Expanding this product gives $e \equiv \prod \chi(d) \pmod{4}$ where e runs through the positive and negative divisors of d and χ denotes the number of distinct prime factors of e Summing this congruence for χ

Proceedings of the International Conference on Cohomology of Arithmetic Groups, L-Functions, and Automorphic Forms T. N. Venkataramana, 2001 This collection of papers is based on lectures delivered at the Tata Institute of Fundamental Research TIFR as part of a special year on arithmetic groups L functions and automorphic forms The volume opens with an article by Cogdell and Piatetski Shapiro on Converse Theorems for GL_n and applications to liftings It ends with some remarks on the Riemann Hypothesis by Ram Murty Other talks cover topics such as Hecke theory for Jacobi forms restriction maps and L values congruences for Hilbert modular forms Whittaker models for p adic GL_4 the Siegel formula newforms for the Maass Spezialchar an algebraic Chebotarev density theorem a converse theorem for Dirichlet series with poles Kirillov theory for GL_2 \mathcal{D} and the L_2 Euler characteristic of arithmetic quotients The present volume is the latest in the Tata Institute's tradition of recognized contributions to number theory

Saito-Kurokawa Liftw, L-values for GL_2 , and Congruences Between Siegel Modular Forms Jim L. Brown, 2005

Non-Archimedean L-functions of Siegel and Hilbert Modular Forms Alekseĭ Alekseevich Panchishkin, 1991

Automorphic Forms, Shimura Varieties, and L-functions Laurent Clozel, J. S. Milne, 1990 **Oxford, Cambridge, and Dublin Messenger of Mathematics ...**, 1920 **Oxford, Cambridge, and Dublin Messenger of Mathematics** William Allen Whitworth, Charles Taylor, James Whitbread Lee Glaisher, 1921 Reviews in Number Theory, 1984-96, 1997 These six volumes include approximately 20 000 reviews of items in number theory that appeared in Mathematical Reviews between 1984 and 1996 This is the third such set of volumes in number theory The first was edited by W J LeVeque and included reviews from 1940 1972 the second was edited by R K Guy and appeared in 1984 **Automorphic Forms, Automorphic Representations, and Arithmetic** Robert S. Doran, Ze Li Dou, George T. Gilbert, 1999 The ten lectures by Goro Shimura that formed the core of the conference have been published separately Here 22 papers represent most of the other talks and additional contributions many by his students The topics include period torsors critical values of twisted tensor L functions over CM fields zeta functions formed with modular symbols Frobenius distributions and Galois representations metaplectic generating functions and Shimura integrals the Plancherel measure for the continuous spectrum of the modular group the

Euler factorization of global integrals omega results for automorphic L series and truncated integrals and the Shintani zeta function for the space of binary quartic forms The two volumes are paged separately neither is indexed Annotation copyrighted by Book News Inc Portland OR Acta Mathematica Academiae Scientiarum Hungaricae ,1982

Mathematica Scandinavica ,1985 Annales Scientifiques de L'École Normale Supérieure ,2005 **The Asian Journal of Mathematics** ,2000 **Bulletin (new Series) of the American Mathematical Society** ,1917 Bulletin of the American Mathematical Society American Mathematical Society,1903 **Acta Arithmetica** ,2012 *Historia Scientiarum* ,1995 **Comptes Rendus Mathématiques de L'Académie Des Sciences** Royal Society of Canada. Academy of Science,1998 **Reviews in Number Theory, as Printed in Mathematical Reviews, 1940 Through 1972, Volumes 1-44 Inclusive** William Judson LeVeque,1974 Mathematical Reviews ,2004

Whispering the Techniques of Language: An Mental Journey through **Congruences For L Functions**

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