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Lectures on the Theory of Automorphic Functions: First Volume

The subsequent notion of an "automorphic representation" has proved of great technical value when dealing with G an algebraic group, treated as an adelic algebraic group. It does not completely include the automorphic form idea introduced above, in that the adelic approach is a way of dealing with the whole family of congruence subgroups at once. Inside an L^2 space for a quotient of the adelic ...

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Automorphic Representations and L-Functions for the ...

Bibliography for automorphic and modular forms, L-functions, and representation theory Last updated 1996, some irrelevant things deleted Apr 2009 . Also see the much newer specialized bibliography for Buildings, Classical Groups, and Representations of p -adic Groups. The following bibliography was compiled for my students.

Another very promising number-theoretical direction in the theory of automorphic functions is the study of p -adic automorphic functions and forms . Finally, one must mention the application of automorphic functions to the study of ordinary differential equations in a complex domain [12] and in the construction of solutions of algebraic equations of degrees higher than four.

Representation Theory and Automorphic Functions (Generalized Functions, Vol 6) by Izrail Moiseevich Gelfand (Author), M. I. Graev (Author), Ilya Piatetski-Shapiro (Author), K. A. Hirsch (Translator) & 1 more. 5.0 out of 5 stars 2 ratings. ISBN-13: 978-0122795060.

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Automorphic Forms and Representations

Generalized Functions: Representation Theory and ...

Representation Theory and Automorphic Functions Izrail' Moiseevich Gelfand, Mark Isifovich Graev, Ilya Piatetski-Shapiro, Ilya Piatetsky-Shapiro, Илья Пятетский-Шапиро, Илья Исифович Пятетский-Шапиро Snippet view - 1968

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Well the basic link to representation theory is that modular forms (and automorphic forms) can be viewed as functions in representation spaces of reductive groups. What I mean is the following: take for example a modular form, i.e. a function f on the upper-half plane satisfying certain conditions. *Representation.Theory.and.Automorphic.Functions ...*

Representation theory of the latter group naturally leads to the study of automorphic functions and related number-theoretic problems. The book contains a wealth of information about discrete subgroups and automorphic representations, and can be used both as a very good introduction to the subject and as a valuable reference.

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Representation theory relates to number theory through the Langlands program, which conjecturally connects algebraic extensions of number fields to automorphic representations and L-functions. These are the subject of several of the papers.

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This graduate-level textbook provides an elementary exposition of the theory of automorphic representations and L-functions for the general linear group in an adelic setting. Definitions are kept to a minimum and repeated when reintroduced so that the book is accessible from any entry point, and with no prior knowledge of representation theory.

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Representation theory is a branch of mathematics that studies abstract algebraic structures by repre-

senting their elements as linear transformations of vector spaces, and studies modules over these abstract algebraic structures. In essence, a representation makes an abstract algebraic object more concrete by describing its elements by matrices and their algebraic operations (for example ...

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