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Autore	Gelbart Stephen S.
Titolo	Automorphic Forms on Adele Groups. (AM-83), Volume 83 / / Stephen S. Gelbart
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Frontmatter -- PREFACE -- CONTENTS -- §1. THE CLASSICAL THEORY -- §2. AUTOMORPHIC FORMS AND THE DECOMPOSITION OF L2(SL(2,)) -- §3. AUTOMORPHIC FORMS AS FUNCTIONS ON THE ADELE GROUP OF GL(2) -- §4. THE REPRESENTATIONS OF GL(2) OVER LOCAL AND GLOBAL FIELDS -- §5 . CUSP FORMS AND REPRESENTATIONS OF THE ADELE GROUP OF GL(2) -- §6. HECKE THEORY FOR GL(2) -- §7 . THE CONSTRUCTION OF A SPECIAL CLASS OF AUTOMORPHIC FORMS -- § 8 . EISENSTEIN SERIES AND THE CONTINUOUS SPECTRUM -- §9. THE TRACE FORMULA FOR GL(2) -- §10. AUTOMORPHIC FORMS ON A QUATERNION ALGEBRA -- BIBLIOGRAPHY -- INDEX
Sommario/riassunto	This volume investigates the interplay between the classical theory of automorphic forms and the modern theory of representations of adele groups. Interpreting important recent contributions of Jacquet and Langlands, the author presents new and previously inaccessible results, and systematically develops explicit consequences and connections with the classical theory. The underlying theme is the decomposition of the regular representation of the adele group of GL(2). A detailed proof of the celebrated trace formula of Selberg is included, with a discussion of the possible range of applicability of this formula. Throughout the

work the author emphasizes new examples and problems that remain open within the general theory.TABLE OF CONTENTS: 1. The Classical Theory 2. Automorphic Forms and the Decomposition of L2(PSL(2,R) 3. Automorphic Forms as Functions on the Adele Group of GL(2) 4. The Representations of GL(2) over Local and Global Fields 5. Cusp Forms and Representations of the Adele Group of GL(2) 6. Hecke Theory for GL(2) 7. The Construction of a Special Class of Automorphic Forms 8. Eisenstein Series and the Continuous Spectrum 9. The Trace Formula for GL(2) 10. Automorphic Forms on a Quaternion Algebr?

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Autore	Pelinovsky Dmitry
Titolo	Symmetries of Nonlinear PDEs on Metric Graphs and Branched Networks / Dmitry Pelinovsky, Diego Noja
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Sommario/riassunto	This Special Issue focuses on recent progress in a new area of mathematical physics and applied analysis, namely, on nonlinear partial differential equations on metric graphs and branched networks. Graphs represent a system of edges connected at one or more branching points (vertices). The connection rule determines the graph topology. When the edges can be assigned a length and the wave functions on the edges are defined in metric spaces, the graph is called a metric graph. Evolution equations on metric graphs have attracted much attention as effective tools for the modeling of particle and wave

dynamics in branched structures and networks. Since branched structures and networks appear in different areas of contemporary physics with many applications in electronics, biology, material science, and nanotechnology, the development of effective modeling tools is important for the many practical problems arising in these areas. The list of important problems includes searches for standing waves, exploring of their properties (e.g., stability and asymptotic behavior), and scattering dynamics. This Special Issue is a representative sample of the works devoted to the solutions of these and other problems.