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functions on a compact Riemann surface, whereas modular forms, which have a more flexible transformation behavior, are holomorphic functions (on H and, in a suitable sense, also at the cusps). Every modular function can be represented as a quotient of two modular forms, and one can think of the modular functions and modular forms as in some sense the analogues of rational numbers and integers, respectively.

Elliptic Modular Forms and Their Applications

functions). It seemed to me that the investigations of Siegel on discrete groups of motions of the hyperbolic plane with a fundamental region of finite volume form a particularly suitable introduction, since they make possible a simple characterization of groups conjugate to the modular group by a minimal condition.

Lectures on Modular Functions of One Complex Variable

Modular functions of one variable were already known to Gauss in connection with the theory of elliptic functions. The historically first class of modular functions in several variables was noted by D. Hilbert. A treatment of these functions was given by P. Blumenthal [46], but we must remark that

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MODULAR FUNCTIONS AND MODULAR FORMS 5.

Arithmetic of Modular Curves. The theorem shows that we can regard $X(N)$ as an algebraic curve, defined by some homogeneous polynomial(s) with coefficients in C . The central fact underlying the arithmetic of the modular curves (and hence of modular functions and modular forms) is that this algebraic curve is defined, in

Modular Functions and Modular Forms - James Milne

the theory of modular functions. 3. The icosahedron There is a beautiful connection between the Rogers-Ramanujan continued fraction (2.1) and the icosahedron that explains the evaluations (2.3) and (2.4) geometrically but that, surprisingly, does not appear to be widely known. It also provides the first step toward proving (2.5) and Theorem 1.

Continued Fractions and Modular Functions - UCLA

Modular Functions of One Variable II Proceedings International Summer School University of Antwerp, RUCA July 17–August 3, 1972. Editors (view affiliations) Pierre Deligne; ... PDF. Formes Modulaires et Représentations de $GL(2)$ P. Deligne. Pages 55-105. PDF. On Representations of GL_2 and The Arithmetic of Modular Curves. W. Casselman.

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Modular Functions of One Variable VI Proceedings International Conference, University of Bonn, Sonderforschungsbereich Theoretische Mathematik July 2–14, 1976. Editors; ... PDF. Analytic properties of Euler products of automorphic representations. C. J. Moreno. Pages 11-26. PDF. Modular forms of weight $1/2$.

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5 Theta Functions as Modular Forms First we analyze convergence of the theta functions. Given any integer $m > 0$, let $r(m)$ denote the number of elements $x \in \mathbb{Z}^n$ such that $\|x\|^2 = 2m$. Then $r(m)$ is bounded by a polynomial in m . This is clear since we are counting lattice points on the surface of a sphere of radius $\sqrt{2m}$ in n dimensions. Serre quotes the bound $O(m^{n/2})$.

1 Theta Functions - MIT Mathematics

In this chapter the author defines modular forms, discusses the dimension formulas for the spaces of modular forms of weight k , introduces and discusses the properties of Hecke operators, and describes how one can construct an L-function from the q -expansion of a modular form.

Modular Functions and Dirichlet Series in Number Theory

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The modular functions constitute the field of functions of the Riemann surface, and hence form a field of transcendence degree one (over \mathbb{C}). If a modular function f is not identically 0, then it can be shown that the number of zeroes of f is equal to the number of poles of f in the closure of the fundamental region R . It can be shown that the field of modular function of level N ($N \neq 1$) is generated by the functions $j(z)$ and $j(Nz)$.

Modular form - Wikipedia

The modular function plays a major role in the theory of elliptic functions, allowing one to determine the periods, with respect to given Weierstrass relative invariants, and, consequently, to construct all Weierstrass elliptic functions.

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