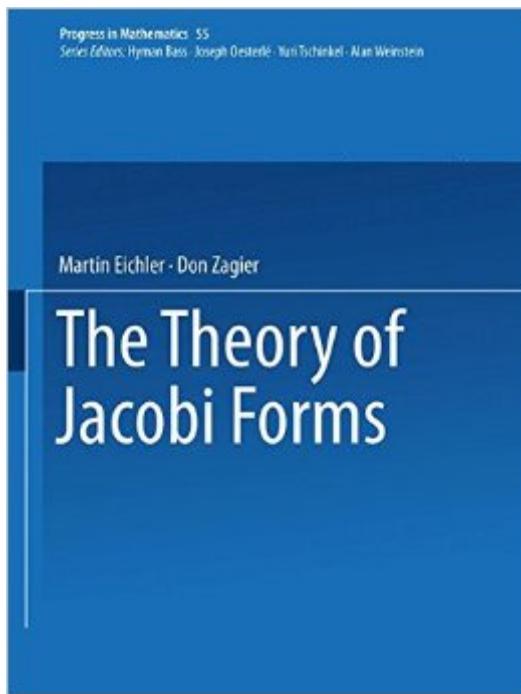


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The Theory Of Jacobi Forms (Progress In Mathematics)



Synopsis

The functions studied in this monograph are a cross between elliptic functions and modular forms in one variable. Specifically, we define a Jacobi form on $SL(2)$ to be a holomorphic function φ on the upper half-plane satisfying the $\tau \mapsto \tau + 1$ transformation equations $\varphi(\tau + 1, z) = e^{2\pi i z} \varphi(\tau, z)$ and having a Fourier expansion of the form $\varphi(\tau, z) = \sum_{n \geq 0} \sum_{m \in \mathbb{Z}} c(n, m) q^n e^{2\pi i m z}$ where $q = e^{2\pi i \tau}$. Note that the function $\varphi(\tau, 0)$ is an ordinary modular form of weight k , while for fixed τ the function $\varphi(\tau, z)$ is a function of z normally used to embed the elliptic curve $E(\tau)$ into a projective space. If $m = 0$, then φ is independent of z and the definition reduces to the usual notion of modular forms in one variable. We give three other examples of situations where functions satisfying (1)-(3) arise classically: 1. Theta series. Let $Q: \mathbb{Z}^n \times \mathbb{Z}^n \rightarrow \mathbb{R}$ be a positive definite integer valued quadratic form and B the associated bilinear form.

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