



# The Theory of Jacobi Forms (Progress in Mathematics)

*Martin Eichler, Don Zagier*

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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  $SL(2, \mathbb{Z})$  to be a holomorphic function  $\theta$  on the upper half-plane satisfying the transformation equations  $\theta\left(\frac{az+b}{c\tau+d}, z\right) = (c\tau+d)^{-k} \theta\left(\frac{a\tau+b}{c\tau+d}, \frac{z+h}{c\tau+d}\right)$  and having a Fourier expansion of the form  $\sum_{n \geq 0} c(n, \tau) e^{2\pi i n \tau + 2\pi i r z}$ . Here  $k$  and  $m$  are natural numbers, called the weight and index of  $\theta$ , respectively. Note that the function  $\theta(\tau, 0)$  is an ordinary modular form of weight  $k$ , while for fixed  $\tau$  the function  $z \mapsto \theta\left(\frac{z+h}{c\tau+d}, z\right)$  is a function of the type normally used to embed the elliptic curve  $E/\mathbb{C}(\tau)$  into a projective space. If  $m=0$ , then  $\theta$  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  $Q$  be a positive definite integer valued quadratic form and  $B$  the associated bilinear form.

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