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Special values of Borcherds forms and integrals of Green functions

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Abstract

In this lecture, I will discuss some results of J. Schofer's thesis on the CM values of Borcherds forms. In the case of Hilbert modular surfaces, these results complement those of Bruinier and Yang, explained in the third lecture of Bruinier. I will then explain how a similar technique can be used to relate the integrals of Green functions to certain terms in the derivatives of genus 1 Eisenstein series.