

ALGEBRA
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Vector-valued Hirzebruch-Zagier series and class number sums

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Abstract: For any fundamental discriminant $D > 0$, Hirzebruch and Zagier constructed a modular form of weight two whose Fourier coefficients are corrections of the Hurwitz class number sums $\sum_{r^2 \equiv 4n \pmod{D}} H((4n - r^2)/D)$. In this talk, we will discuss how one can reinterpret their result and remove the condition that D is fundamental by working instead with vector-valued modular forms for Weil representations.

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MATHEMATICS AND COMPUTER SCIENCE
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