

# INTEGRALITY PROPERTIES OF ZAGIER LIFTS IN LEVEL 3

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ABSTRACT. Zagier's famous paper on traces of singular moduli defined a lift of modular forms of weight 0 and level 1 to modular forms of weight  $1/2$  and level 4. These lifts have been generalized to spaces of weakly holomorphic modular forms of nonpositive weight and higher level. We show that in level 3, this lift preserves integrality of Fourier coefficients. This is joint work with Nathan Green.