

Mathematics > Number Theory

(Submitted on 6 Jun 2012)

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Subjects:Number Theory (math.NT)MSC classes:11F27, 11F25, 11F37, 11E16, 11F11Cite as:arXiv:1206.1102 [math.NT](or arXiv:1206.1102v1 [math.NT] for this version)

On a completed generating function of

While investigating the Doi-Naganuma lift, Zagier defined integral weight cusp forms \$f_D\$ which are

naturally defined in terms of binary quadratic forms of discriminant \$D\$. It was later determined by Kohnen and Zagier that the generating function for the \$f_D\$ is a half-integral weight cusp form. A

natural preimage of \$f_D\$ under a differential operator at the heart of the theory of harmonic weak

generating function is not itelf modular, it can be naturally completed to obtain a half-integral weight

Maass forms was determined by the first two authors and Kohnen. In this paper, we consider the modularity properties of the generating function of these preimages. We prove that although the

locally harmonic Maass forms

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Submission history

modular object.

From: Ben Kane [view email] [v1] Wed, 6 Jun 2012 01:06:04 GMT (14kb)

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