

The stringy E-function of the moduli space of Higgs bundles with trivial determinant

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Let $\mathbf{M}$ be the moduli space of semistable rank 2 Higgs pairs (V, ϕ) with trivial determinant over a smooth projective curve X of genus $g \geq 2$. We compute the stringy E-function of $\mathbf{M}$ and prove that there does not exist a symplectic desingularization of $\mathbf{M}$ for $g \geq 3$.

1 Presented by Sang-Bum Yoo