

1154-14-639

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Linear Hyperelliptic Hodge Integrals.

We find a closed form expression for linear Hodge integrals on the hyperelliptic locus. Specifically, we find a combinatorial expression for all intersection numbers on the hyperelliptic locus that have one λ -insertion, and powers of a ψ -class pulled back along the branch map. In order to do this, we use Atiyah-Bott localization on a stack of stable maps into the orbifold $[\mathbb{P}^1/\mathbb{Z}_2]$. (Received September 09, 2019)