

1086-VJ-2942 **Dustin J Ross*** (ross@math.colostate.edu), Weber 233, CSU, Fort Collins, CO 80523. *The Gerby Gopakumar-Marino-Vafa Formula.*

We prove a formula for certain cubic \mathbb{Z}_n -Hodge integrals in terms of loop Schur functions. We use this identity to prove the Gromov-Witten/Donaldson-Thomas correspondence for local \mathbb{Z}_n -gerbes over \mathbb{P}^1 . (Received September 26, 2012)