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G-Hodge Integrals, Gerby Localization and the GW Theory of $[\mathbb{C}^3/\mathbb{Z}_3]$

In this talk we discuss a successful approach to the computation of orbifold Gromov–Witten invariants, focusing in particular on the orbifold $[\mathbb{C}^3/\mathbb{Z}_3]$, which has recently been source of interest to both physicists and mathematicians. Such invariants are interpreted in terms of G-Hodge integrals, and relations among G-Hodge integrals are obtained via Atiyah–Bott localization. In order to find sufficiently many relations to reconstruct all invariants, we turn our attention to moduli spaces of maps to gerbes over \mathbb{P}^1 .

This is joint work with C. Cadman.