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Equivariant multiplicities of Schubert Varieties in the Based Loop Group

We compute equivariant multiplicities in the K-homology of Schubert varieties in the based loop group ΩG for the case of $G = SU(2)$. After taking a limit as the dimension of the Schubert varieties goes to ∞, we can interpret our results as an infinite-dimensional version of the well-known Atiyah-Bott-Lefschetz Formula. From this result we also derive an effective formula for computing characters of certain Demazure modules.