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Flops of Crepant Resolutions

of

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Abstract: Let G be a finite subgroup of $SL(3, \mathcal{C})$ acting with an isolated singularity on \mathcal{C}^3 . A crepant resolution of \mathcal{C}^3/G comes together with a set of tautological line bundles associated to each irreducible representation of G . In this note we give a formula for the triple product of the first Chern class of the tautological bundles in terms of both the geometry of the crepant resolution and the representation theory of G . From here we derive the way these triple products change when we perform a flop.

Key Words: Calabi-Yau orbifolds, crepant resolutions



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