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NCCRs and the McKay correspondence for reductive groups

The classical McKay correspondence relates the geometry of quotient singularities with the representation theory of finite groups. In recent joint work with Jeremy Usatine, we generalize this to a McKay correspondence for reductive groups, obtaining explicit formulas for stringy invariants in terms of Weyl group actions and invariants of toric varieties. Using this reductive McKay correspondence, we construct a counter-example to three conjectures relating non-commutative crepant resolutions (NCCRs) and stringy invariants.