

Donaldson-Thomas invariants of toric quivers

jeudi 30 juin 2022 10:30 (20 minutes)

A toric localization formula for numerical Donaldson-Thomas invariants, giving the virtual Euler number of moduli spaces which are critical locus, is known since Graber and Pandharipande. We provide here a refining of this formula for cohomological Donaldson-Thomas invariants, which can be seen as a 'virtual version of Bialinicki Birula decomposition', giving the virtual cohomology of the attracting variety as a shifted sum of the virtual cohomology of the fixed components. We show how this formula gives a refining of the computation of numerical DT invariants of toric quivers by enumerating pyramids provided by Mozgovoy and Reineke.

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