

Combinatorial actions on quivers and geometric interpretations

Wednesday 20 December 2023 17:10 (50 minutes)

The Coulomb branch of 3d $N=4$ gauge theory is a new construction of symplectic singularities.

This talk will cover operations on quivers that start with a given symplectic singularity and ends with a new symplectic singularity, while the relation between the two is understood geometrically.

These operations include

—Quiver subtraction where the resulting singularity is a degeneration of a bigger singularity, thus revealing the stratification of symplectic leaves.

—Quiver subtraction where the resulting singularity is a HK quotient.

These combinatorial operations extend to orthosymplectic quivers and few examples of this type will be discussed.

It is hoped that such operations can be further extended to Gorenstein singularities.

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