EQUIVARIANT MATRIX FACTORIZATION CATEGORIES ON CYCLIC COVERINGS AND DK CONJECTURE FOR GRASSMANNIAN FLIPS

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Abstract:

We study the derived categories of Grassmannians of any simple algebraic groups and cyclic covering of projective spaces. In this talk, I will report some results about equivariant matrix factorization categories on cyclic coverings of projective spaces and DK conjecture on Grassmannian flips. In the first part, I will discuss how the matrix factorization categories on covering spaces are related to the associated branch locus. In the second part, I will talk about DK conjecture on Grassmannian flip of type A_6.