

1164-18-105

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Computations for thick subcategories in Macaulay2. Preliminary report.

In the derived category of a commutative noetherian the smallest subcategory containing a complex G closed under direct summands and cones is the thick subcategory generated by G . In my talk I present a new package for the computer algebra system Macaulay2 on how to check when a complex X lies in the thick subcategory generated by G , and how to compute bounds for the number of cones required to build X from G . This is joint work with Grifo and Pollitz. (Received January 15, 2021)