Regularity, Singularity, and Matrix Factorizations

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2023.06.30 (Fri) 10:00 ~ 18:00

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Abstract :The classical theorem of Serre tells that a given local ring is regular if and only if its global dimension is finite. That is, any finitely generated module on a regular local ring has a finite lengnth projective resolution. More generally, any object in the bounded derived category of a regular local ring is quasi-isomorphic to a finite length projective complex. Such an object is said to perfect.

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