Research project LT

Localisation theory in triangulated categories

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**Research project short description:** Localisation is a method to formally invert morphisms in a category. Two main ways to develop localisation theory are Verdier and Bousfield localisations, while Brown representability in well generated triangulated categories, is used to construct localising functors. The theory, with the parallel notions of $t$-structures and recollements, has a wide range of applications e.g. in equivalences of categories, homotopy theory and others.