

Abelian quotients of triangulated categories

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We study abelian quotients $A = T/J$, where T is a triangulated category, and J is an ideal of T . We show that any cohomological quotient functor is representable, and also give technical criteria for when a representable functor is a quotient functor. We show that the quotient functor from T to A preserves the AR-structure of T and study when J gives a cluster-tilting sub-category of T .

This is joint work with Benedikte Grimeland.