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Weakening the notion of localisation for semi-abelian and homological categories

In this talk we will focus on the study of protolocalisations [1, 2], protoadditive reflections [3, 4], and semilocalisations [5] in semi-abelian and homological categories.

References:

[1] F. Borceux, M.M. Clementino, M. Gran, L. Sousa, Protolocalisations of homological categories, *J. Pure Appl. Algebra* 212 (2008) 1898–1927.

[2] F. Borceux, M. Gran, S. Mantovani, Protolocalisations of exact Mal'cev categories, *Theory Appl. Categ.* 21 (2008) 37–60.

[3] T. Everaert, M. Gran, Homology of n-fold groupoids, *Theory Appl. Categ.* 23 (2010) 22–41.

[4] T. Everaert, M. Gran, Protoadditive functors, derived torsion theories and homology, *J. Pure Appl. Algebra* 219 (2015) 3629–3676.

[5] M. Gran, S. Lack, Semi-localizations of semi-abelian categories, *preprint*, arXiv 1405.1092.