

Pretorsion theories in general categories

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We will present a notion of pretorsion theory in general categories and two, or more, interesting examples of such pretorsion theories. Torsion theories in arbitrary categories have been studied by Grandis, Janelidze and Márki. Our main examples will be in the category of preordered sets and the category of finite algebras with one operation, unary, and no axioms (i.e., the category of all mappings $f: X \rightarrow X$, where X is a finite set). Our results appear in joint papers with Carmelo Antonio Finocchiaro, Marino Gran and Leila Heidari Zadeh.