

INTRINSIC SCHREIER SPLIT EXTENSIONS

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In the context of regular unital categories, under conditions satisfied by all Jónsson-Tarski varieties of universal algebras, we introduce an intrinsic version of the notion of a "Schreier split epimorphism", originally considered for monoids.

We show that such split epimorphisms satisfy the same homological properties as Schreier split epimorphisms of monoids do. This gives rise to new examples of S -protomodular categories, and allows us to better understand the homological behaviour of monoids from a categorical perspective.