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Alternative descriptions of internal object actions

Internal object actions in semi-abelian categories were introduced in [2] as the algebraic structures used in [1] to define categorical semidirect products. Since then several alternative descriptions of internal object actions have been proposed, and the aim of this talk is to clarify the relationship between them.

REFERENCES

- [1] D. Bourn and G. Janelidze, Protomodularity, descent, and semidirect products, *Theory and Applications of Categories* 4, 1998, 37-46.
- [2] F. Borceux, G. Janelidze, and G. M. Kelly, Internal object actions, *Commentationes Mathematicae Universitatis Carolinae* 46, 2, 2005, 235-255.