

Borceux, F.; Janelidze, G.; Kelly, G. M.

Internal object actions. (English) [Zbl 1121.18004](#)

Commentat. Math. Univ. Carol. 46, No. 2, 235-255 (2005).

Summary: We describe the place, among other known categorical constructions, of the internal object actions involved in the categorical notion of semidirect product, and introduce a new notion of representable action providing a common categorical description for the automorphism group of a group, for the algebra of derivations of a Lie algebra, and for the actor of a crossed module.

MSC:

- 18C15** Monads (= standard construction, triple or triad), algebras for monads, homology and derived functors for monads
- 18C20** Eilenberg-Moore and Kleisli constructions for monads
- 18D10** Monoidal, symmetric monoidal and braided categories (MSC2010)
- 18D15** Closed categories (closed monoidal and Cartesian closed categories, etc.)

Cited in **4** Reviews
Cited in **47** Documents

Keywords:

[monoidal category](#); [monoidal functor](#); [monoid](#); [action](#); [semi-abelian category](#); [semidirect product](#)

Full Text: [EuDML](#) [EMIS](#)