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Monads and Isotropy

In joint work with Funk and Steinberg (“Isotropy and Crossed Toposes”, TAC, 2012), a new algebraic invariant of Grothendieck toposes was introduced: just as every topos contains a canonical locale (its subobject classifier), it also contains a canonical group, called its *isotropy group*. In this talk, I will survey some of the recent developments concerning isotropy groups of toposes and of small categories, and in particular explain how this gives rise to some new monads on the category of small categories, one of which can be viewed as encoding formal conjugation in a category.