

Generalized abstract elementary classes

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July 17, 2015

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Abstract: We introduce μ -Abstract Elementary Classes as a broad framework for model theory that includes infinitary structures like σ -complete boolean algebras and Banach spaces. We begin some work on their classification theory and show that they are equivalent to accessible categories whose morphisms are monomorphisms. This is a joint work with W. Boney, R. Grossberg, M. Lieberman and S. Vasey.