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Alessandro Ardizzoni* (alessandro.ardizzoni@unito.it), University of Turin, Department of Mathematics “Giuseppe Peano”, via Carlo Alberto 10, I-10123 Torino, Italy. *A functorial approach to Lie Theory.*

Hom-Lie algebras, Lie color algebras, Lie superalgebras and other type of generalized Lie algebras are recovered by means of an iterated construction, known as monadic decomposition of functors, which is based on Eilenberg-Moore categories.

This talk is mainly based on the work [A. Ardizzoni and C. Menini, ”Milnor-Moore Categories and Monadic Decomposition”, submitted. (arXiv:1401.2037)] (Received August 14, 2014)