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Erhard Neher* (neher@uottawa.ca), Department of Mathematics and Statistics, University of Ottawa, Ottawa, Ontario K1N 6N5, Canada. *Extended affine Lie algebras*. Preliminary report.

Extended affine Lie algebras are generalizations of affine Lie algebras and toroidal Lie algebras. Their structure turns out to be analogous to the structure of an affine Lie algebra, if one replaces the loop algebra of a simple finite-dimensional Lie algebra by a so-called centreless Lie torus. The talk will be an introduction to extended affine Lie algebras and some of their recent generalizations. (Received March 03, 2006)