Yuly Billig and Michael K Lau\* (mlau@uottawa.ca), University of Ottawa Math Dept., 585 King Edward Ave., Ottawa, Ontario K1N 6N5, Canada. *Modules for Extended Affine Lie Algebras*. Preliminary report.

In the late 1960s, Victor Kac constructed the affine Lie algebras from fixed point subalgebras of loop algebras. Recent work on multiloop algebras has shown that almost all extended affine Lie algebras can be described in terms of fixed point subalgebras of toroidal loop algebras. In this joint work with Y. Billig, I will describe a procedure to construct representations of these extended affine Lie algebras using an appropriate vertex algebra analogue of a multiloop algebra. (Received March 06, 2006)