## 1077-VJ-2133 Nathaniael J Manning\* (nmanning@math.ucr.edu), Riverside, CA, and Ghislain Fourier (gfourier@math.uni-koeln.de) and Prasad Senesi (senesi@cua.edu). Global Weyl modules for twisted loop algebras.

We define global Weyl modules for twisted loop algebras and analyze their highest weight spaces, which are in fact isomorphic to Laurent polynomial rings in finitely many variables. We are able to show that the global Weyl module is a free module of finite rank over these rings. Furthermore, we prove that there exist injective maps from the global Weyl modules for twisted loop algebras into a direct sum of global Weyl modules for untwisted loop algebras. Relations between local Weyl modules for twisted and untwisted generalized current algebras are known; we provide for the first time a relation on global Weyl modules. (Received September 21, 2011)