1043-17-110Brian D. Boe (brian@math.uga.edu), Department of Mathematics, University of Georgia,
Athens, GA 30602, Daniel K. Nakano* (nakano@math.uga.edu), Department of Mathematics,
University of Georgia, Athens, GA 30602, and Emilie Wiesner (ewiesner@ithaca.edu),
Department of Mathematics, Ithaca College, Ithaca, NY 14850. Ext¹-quivers for the Witt
algebraW(1, 1).

Let \mathfrak{g} be the finite-dimensional Witt algebra W(1,1) over an algebraically closed field of characteristic $p \geq 5$. It is well known that all simple W(1,1)-modules are finite dimensional. Each simple module admits a character $\chi \in \mathfrak{g}^*$. Given $\chi \in \mathfrak{g}^*$ one can form the (finite dimensional) reduced enveloping algebra $u(\mathfrak{g},\chi)$. The simple modules for $u(\mathfrak{g},\chi)$ are precisely those simple W(1,1)-modules admitting the character χ . In this talk I will demonstrate how we can compute Ext^1 between pairs of simple modules for $u(\mathfrak{g},\chi)$. (Received August 22, 2008)