1048-17-302   **Brian D. Boe*** (`brian@math.uga.edu`), Mathematics Department, University of Georgia, Athens, GA 30602, **Daniel K. Nakano** (`nakano@math.uga.edu`), Mathematics Department, University of Georgia, Athens, GA 30602, and **Emilie Wiesner** (`ewiesner@ithaca.edu`), Mathematics Department, Ithaca College, Ithaca, NY 14850. Ext^1-*quivers for the Witt Algebra* $W(1,1)$.

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 show how to compute Ext^1 between pairs of simple modules for $u(\mathfrak{g}, \chi)$. (Received February 10, 2009)

1