

1095-05-244

Michael Chmutov* (mchmutov@umich.edu), **Shifra Reif** and **Crystal Hoyt**. *A combinatorial model for highest weights of finite dimensional representations of $\mathfrak{gl}(m, n)$* . Preliminary report.

We present a combinatorial tool to study highest weights of a finite dimensional representation of general linear Lie superalgebra and use it to prove the Kac-Wakimoto character formula stated in 1994. We also apply this tool to give an alternative proof of the Moens-Van der Jeugt theorem that covariant representations (whose characters are the super-Schur functions) are tame. Joint with C. Hoyt and S. Reif. (Received September 10, 2013)