

1095-16-162

Georgia Benkart, Nicolas Guay* (nguay@ualberta.ca), **Ji Hye Jung, Seok Jin Kang** and **Stewart Wilcox**. *Quantum walled Brauer-Clifford superalgebras*. Preliminary report.

Walled Brauer algebras appeared about twenty years ago as centralizer algebras for the action of $\mathfrak{gl}_n(\mathbb{C})$ on the mixed tensor space $(\mathbb{C}^n)^{\otimes r} \otimes (\mathbb{C}^{n*})^{\otimes s}$. They admit analogs for the corresponding quantized enveloping algebra. Recently, S.J. Kang and J.H. Jung have investigated new walled Brauer(-Clifford) superalgebras which are centralizers for the action of the Lie superalgebra of type Q on the mixed tensor superspace $(\mathbb{C}(n|n))^{\otimes r} \otimes (\mathbb{C}(n|n)^*)^{\otimes s}$. Quantum analogs of those superalgebras will be presented along with a few results about them: e.g. centralizer property, almost cellularity. A connection with new q -Schur superalgebras of type Q will also be discussed. (Received September 08, 2013)