

1054-17-176

Gizem Karaali* (gizem.karaali@pomona.edu), Department of Mathematics, Pomona College, 610 N. College Ave., Claremont, CA 91711. *On the quantization of super dynamical r -matrices of zero weight.*

Solutions of the classical dynamical Yang-Baxter equation on a Lie superalgebra are called *super dynamical r -matrices*. A super dynamical r -matrix r satisfies the *zero weight condition* if:

$$[h \otimes 1 + 1 \otimes h, r(\lambda)] = 0 \text{ for all } h \in \mathfrak{h}, \lambda \in \mathfrak{h}^*.$$

In this talk we consider the problem of explicitly quantizing all zero-weight super dynamical r -matrices (with any coupling constant). (Received September 13, 2009)