1046-22-263 **jennifer d berg*** (berg.jennifer@gmail.com), 14 winter street, no.1, leominster, MA 01453. On the Casimir fields of $q(n)^{(1)}$. Preliminary report.

The goal of the project introduced here is to investigate the properties of the "Casimir fields" of the Lie superalgebra q(n), that is the vertex operators obtained from applying the state fields correspondence to the generators of the center of $\mathcal{U}(q(n))$. Connecting the calculations to Feynman diagrams opens the door to techniques which may be used to verify that all the "Casimir fields" are, in fact central. (Received August 24, 2008)