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Brian Parshall*, Department of Mathematics, University of Virginia, Charlottesville, VA 22903, and **Leonard Scott** (11s21@virginia.edu), Department of Mathematics, University of Virginia, Charlottesville, VA 22903. *A semisimple series for q -Weyl and q -Specht modules*. Preliminary report.

In earlier work, the authors investigated certain semisimple series for quantum Weyl modules at a root of unity (subject to some restrictions). Subject to restrictions on the size of the characteristic, similar results were obtained for Weyl modules with highest weight in the Jantzen region. In both cases, the best results were obtained in the regular weight case, when the filtration could be taken to be the radical filtration. We discuss how, using affine Lie algebras, and working in type A , the quantum results can be obtained with no restriction on the root of unity. (These results hold in other types subject to restrictions.) Applications are given to q -Specht modules. We discuss an analogue for Weyl modules for classical Schur algebras and Specht modules for symmetric groups in positive characteristic. This work requires the validity of the James conjecture and a version of the Bipartite Conjecture. (Received January 17, 2012)