1133-20-189 **Jie Du** and **Brian Parshall*** (bjp8w@virginia.edu), Dept. of Mathematics, University of Virginia, Charlottesville, VA 22903, and **Leonard Scott**. *Local and global methods in representations of Hecke algebras.* Preliminary report.

The q-Schur algebeas of Dipper-James were originally used to study the cross-characteristic representation theory of $GL_n(q)$. For some time, these algebras have been known to be quasi-hereditary, even over the ring $\mathbb{Z}[t, t^{-1}]$ of integral Laurent polynomials. In other types, the use of quasi-hereditary algebras in cross-characteristic theory, while a good starting point, seems too restrictive, if one is seeking a theory for all (even *bad*) characteristics different from the defining characteristic p. This talk will discuss this topic, concentrating on an old conjecture of the authors and new techniques which they have recently developed to apply to these questions. In some sense, some of the methods fit quite nicely with the theme of this special session. (Received July 25, 2017)