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Kevin McGerty* (mcgerty@math.uchicago.edu), Department of Mathematics, 5734 S University Avenue, Eckhart Hall #309, Chicago, IL 60637. *Modular embeddings of q -Schur algebras*. Preliminary report.

We construct an embedding of a Schur algebra $S(n, r)$ into the q -Schur algebra $S_q(n, lr)$ where q is an l -th root of unity, for a prime l . This gives an integral lift of a modular embedding exhibited by Martin-Fayers in the case $n = 2$ and should be related to similarities in decomposition matrices. (Received September 20, 2005)