1096-05-1408 **Tom Halverson*** (halverson@macalester.edu), Macalester College, Saint Paul, MN 55104, and **Arun Ram** and **Nathaniel Thiem**. *A q-analog of the partition algebra.* Preliminary report.

The partition algebra $P_k(n)$ is the centralizer of the symmetric group S_n acting on the k-fold tensor product $V^{\otimes k}$ of its n-dimensional permutation representation V. The module $V^{\otimes k}$ is isomorphic to the module given by k iterations of restriction and induction between S_n and S_{n-1}. We study the analogous centralizer algebra $Q_k(n,q)$ given by k iterations of Harish-Chandra restriction and induction between finite general linear groups $GL_n(\mathbb{F}_q)$ and $GL_{n-1}(\mathbb{F}_q)$. Then $Q_k(n,q)$ is a q-analog of the partition algebra $P_k(n)$. (Received September 15, 2013)