1120-05-156   **Zachary Hamaker** (`patri080@umn.edu`), **Adam Keilthy**, **Rebecca Patrias***
(`patri080@umn.edu`), **Lillian Webster**, **Yinuo Zhang** and **Shuqi Zhou**. *Shifted Hecke insertion and the K-theory of OG(n,2n+1).*

We use shifted Hecke insertion, a K-theoretic analogue of Sagan-Worley insertion, to construct symmetric function representatives for the K-theory of the orthogonal Grassmannian. These representatives are closely related to the shifted Grothendieck polynomials of Ikeda and Naruse. We then recover the K-theoretic Littlewood-Richardson rules of Clifford-Thomas-Yong and Buch-Samuel by introducing a shifted K-theoretic Poirier-Reutenauer algebra. (Received February 20, 2016)