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Jason Gaddis* (gaddisjd@wfu.edu), **Ellen Kirkman** (kirkman@wfu.edu), **W. Frank Moore** (moorewf@wfu.edu) and **Robert Won** (wonrj@wfu.edu). *Auslander's Theorem for permutation actions on (-1) -skew polynomial rings.* Preliminary report.

Let \mathbb{k} be an algebraically closed field of characteristic zero. If G is a finite subgroup of $GL_n(\mathbb{k})$ containing no reflections and acting naturally on $A = \mathbb{k}[x_1, \dots, x_n]$, then the skew group ring $A\#G$ is isomorphic to $\text{End}_{A^G}(A)$ as algebras precisely when G contains no reflections. Bao, He, and Zhang have developed the notion of pertinency and were successful in extending Auslander's Theorem to certain noncommutative algebras. In this talk, I will report on joint progress with Kirkman, Moore, and Won in extending Auslander's Theorem to the permutation action of S_n on $\mathbb{k}_{-1}[x_1, \dots, x_n]$. (Received September 16, 2016)