Jack Spielberg* (jack.spielberg@asu.edu), Xin Li, Tron Omland, David Pask and Adam Sorensen. Semigroup C*-algebras from permutations. Preliminary report.

Let f be a permutation of a set S, and define a semigroup by the presentation $\langle S \mid af(a) = bf(b)$ for $a, b \in S \rangle^+$. One can show that this semigroup is left cancellative, and therefore one can construct from it an ample étale groupoid. We will describe the structure of these groupoids and their C^* -algebras, including K-theory calculations. This is joint work with Xin Li, Tron Omland, David Pask, and Adam Sørensen. (Received August 25, 2018)