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Joshua P Swanson* (jps314@uw.edu), **Connor Ahlbach** (ahlbach@math.washington.edu)
and **Brendon Rhoades** (bprhoades@ucsd.edu). *Refined Cyclic Sieving on Words and Tableaux.*

The *cyclic sieving phenomenon* (CSP) introduced by Reiner–Stanton–White encodes the orbit structure of cyclic actions on finite sets in univariate polynomials. Such polynomials are typically combinatorial generating functions—e.g. q -binomial coefficients. We will introduce the recent, natural notion of *refinement* of a CSP. Initial examples arose from the *cyclic descent type* of a word. More recently, further examples have been uncovered for many skew tableaux, resulting in what we have termed “Euler–Mahonian” refined cyclic sieving. We will explain these results as time allows.

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