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Voicing Transformations and a Linear Representation of Uniform Triadic Transformations.

We first revisit Joe Straus' interpretation of Webern, Concerto for Nine Instruments, Op. 24, Second Movement and re-interpret its retrograde inversion enchaining operation as a composite of a voicing reflection and a permutation. This motivates our investigation of the matrix group $\mathcal{J}$ generated by voicing reflections, its extension by permutations, and its utility in more economic descriptions of flip-flip cycles. We sketch a Structure Theorem for the group $\mathcal{J}$ and apply it to find a matrix with orbit the diatonic falling fifth sequence, as well as four matrices that each realize the alternating PLP and L flip-flop in Clampitt's interpretation of the famous Grail sequence. We also discuss some implications of our Structure Theorem for a linear representation of Hook's uniform triadic transformations group. This is joint work with Thomas Noll. (Received September 16, 2016)