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Michael J Falk*, michael.falk@nau.edu. *Higher resonance in the braid arrangement*. Preliminary report.

We exhibit a new, or newly observed, weak map on the cycle matroid of the complete graph, and examine the consequences for resonance varieties of the braid arrangement, the existence of linear systems providing foliations of configuration space, and the critical locus of $\prod_{i < j} (x_i - x_j)^{a_{ij}}$ for special values of a_{ij} . (Received February 19, 2018)