Jennifer C. H. Wilson* (wilsonj@math.uchicago.edu), University of Chicago, Department of Mathematics, 5734 S University Avenue, Chicago, IL 60637. Stability phenomena for sequences of representations of the classical Weyl groups.

Over the past three years, Church, Ellenberg, Farb, and Nagpal developed the theory of FI-modules for studying sequences of representations of the symmetric groups. I will outline their work, and explain how it adapts to sequences of representations of any family of classical Weyl groups. We can use this theory to describe the structure of a variety of sequences coming from algebra, geometry, and topology, including the cohomology rings of several families of groups related to the pure braid groups. (Received September 17, 2013)