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Emily Barnard, Nathan Reading and Ashley M. Tharp* (amtharp@ncsu.edu). *Noncrossing arc diagrams beyond type A*. Preliminary report.

Noncrossing arc diagrams are a visual method of representing permutations. They naturally encode canonical join representations and contain complete information on lattice congruences and lattice quotients on the weak order of type A. This talk will provide an overview of the existing results on noncrossing arc diagrams for permutations and present analogous results on noncrossing arc diagrams for signed permutations (type B) and even signed permutations (type D). (Received September 20, 2021)