Updates for
Some open problems on Coxeter groups and unimodality

1. Unknown to me (and to John Stembridge, and to the author) Problem 1.1 had been solved in the affirmative in [R. De Man, *The generating function for the number of roots of a Coxeter group*, J. Symbolic Computation, **27**(1999), 535–541].

2. Conjecture 1.4, for the R-polynomials, has been proved for elementary intervals of the symmetric group in [G. Barkley, C. Gaetz, *Combinatorial invariance for Kazhdan-Lusztig R-polynomials of elementary intervals*, Math. Ann. **392**(2025), 3299-3317].

3. Conjectures 1.4 and 1.6 have been proved to be equivalent in [G. Barkley, C. Gaetz, *On combinatorial invariance of parabolic Kazhdan-Lusztig polynomials*, Selecta Math. (N.S.) **31**(2025), Paper No. 51, 9 pp.].

4. Conjectures which are analogous to Conjecture 1.7, but for the R-polynomials (i.e., explicit algorithms for computing the Kazhdan-Lusztig R-polynomial of a pair of elements u, v in a symmetric group starting from the Bruhat interval $[u, v]$ as an abstract poset) have been proposed in [F. Brenti, M. Marietti, *Kazhdan-Lusztig R-polynomials, combinatorial invariance, and hypercube decompositions*, Math. Zeitschrift **309**(2025), Paper No. 25, 19 pp., Conj. 6.1] and [G. Barkley, C. Gaetz, *Combinatorial invariance for Kazhdan-Lusztig R-polynomials of elementary intervals*, Math. Ann. **392**(2025), 3299-3317, Conj. 1.3]. No logical implications between these two conjectures, or between any of them and Conjecture 1.7, are known.

5. Conjecture 1.7 has been proved for lower intervals (i.e., intervals $[e, v]$ where e is the identity) in [G. Barkley, C. Gaetz, *The BBDVW Conjecture for Kazhdan-Lusztig polynomials of lower intervals*, Int. Math. Res. Not., to appear]