

## 1 The lattice of noncrossing partitions for Coxeter Coxeter groups

This project concerns learning about generalizations of the lattice of noncrossing partitions in the context of Coxeter groups, see [1] for an overview and [3, 2, 4] for original references, as well as the references therein for more information.

### References

- [1] Drew Armstrong. Generalized noncrossing partitions and combinatorics of Coxeter groups. *Mem. Amer. Math. Soc.*, 202(949):x+159, 2009.
- [2] David Bessis. The dual braid monoid. *Ann. Sci. École Norm. Sup. (4)*, 36(5):647–683, 2003.
- [3] Thomas Brady and Colum Watt.  $K(\pi, 1)$ 's for Artin groups of finite type. In *Proceedings of the Conference on Geometric and Combinatorial Group Theory, Part I (Haifa, 2000)*, volume 94, pages 225–250, 2002.
- [4] Thomas Brady and Colum Watt. Non-crossing partition lattices in finite real reflection groups. *Trans. Amer. Math. Soc.*, 360(4):1983–2005, 2008.