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Título: Generalized Noncrossing Partitions And Combinatorics Of Coxeter Groups

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This memoir is a refinement of the author's PhD thesis -- written at Cornell University (2006). It is primarily a description of new research but also includes a substantial amount of background material. At the heart of the memoir the author introduces and studies a poset $NC^{\{k\}}(W)$ for each finite Coxeter group W and each positive integer k . When $k=1$, his definition coincides with the generalized noncrossing partitions introduced by Brady and Watt in $K(\pi, 1)$'s for Artin groups of finite type and Bessis in The dual braid monoid. When W is the symmetric group, the author obtains the poset of classical k -divisible noncrossing partitions, first studied by Edelman in Chain enumeration and non-crossing partitions.

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