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 desription 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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