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Title: Permutations in new guises

Abstract: Bousquet-Mlou et al. [arXiv:0806.0666] gave bijections between four classes of combinatorial objects, thus proving that they are equinumerous: certain matchings due to Stoimenow; unlabeled (2+2)-free posets; permutations avoiding a specific pattern; and so called ascent sequences. Inspired by their work we define a natural superset of Stoimenow's matchings whose cardinality is shown to be $n!$. Moreover, we define a set of (2+2)-free posets, also of cardinality n!.

This is join work with Svante Linusson (KTH - Royal Institute of Technology).