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Alexander Postnikov* (apost@math.mit.edu), Department of Mathematics, MIT, 77
Massachusetts Ave, Cambridge, MA 02139. *From total positivity to positroids (via the
Grassmannian, the Bruhat order, and pattern avoidance).*

We will discuss combinatorial objects that came up in the study of total positivity on the Grassmannian, and their relations with Schubert calculus, matroids, combinatorics of the Bruhat order, and pattern avoidance. (Received February 11, 2008)