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**Lauren K Williams\*** ([lauren@math.harvard.edu](mailto:lauren@math.harvard.edu)), Department of Mathematics, 1 Oxford Street, Cambridge, MA 02138. *Total positivity for real flag varieties.*

In the 1990's, Lusztig generalized the classical theory of total positivity (square matrices with all minors positive) to real reductive groups and real flag varieties. We will discuss the combinatorics and topology of the totally non-negative part of a real flag variety. (Received September 02, 2006)