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Julianna Tymoczko* (tymoczko@math.uiowa.edu), Department of Mathematics, University of Iowa, 14 MacLean Hall, Iowa City, IA 52242. *The geometry and combinatorics of some special subvarieties of the flag variety.*

Subvarieties of the flag variety like Springer varieties and their generalizations, Hessenberg varieties, arise naturally in representation theory. We describe natural combinatorial characterizations of the geometry in some special cases, and how it relates to representation theory. (Received February 03, 2009)