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**William M. McGovern\*** (mcgovern@math.washington.edu), Department of Mathematics, Box 354350, University of Washington, Seattle, WA 98195. *Rational smoothness of  $K$ -orbits in the flag variety for  $GL(2n)$ .*

At the Annual Meeting last January I sketched characterizations of the  $K$ -orbits with rationally smooth closure in a flag variety  $G/B$ , where  $G$  is a complex semisimple Lie group of classical type,  $B$  is a Borel subgroup, and  $K$  is a symmetric subgroup. I could not treat the case  $G = GL(n)$ ,  $K = O(n)$ , at that time. Here I give two criteria in this case if  $n$  is even, one a necessary one in terms of pattern avoidance and the other a necessary and sufficient one in terms of the degree of the bottom vertex in the Bruhat graph. (Received June 15, 2011)