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**Edward Richmond\*** ([edward.richmond@okstate.edu](mailto:edward.richmond@okstate.edu)) and **William Slofstra**. *Fiber bundle structures on Schubert varieties*. Preliminary report.

We give a combinatorial characterization of when fiber-bundle structures on Schubert varieties are induced from the natural projection maps between the flag varieties. Applications of such fiber-bundle structures include a new proof of Peterson's theorem that rationally smooth Schubert varieties are smooth and a proof of the Billey-Crites conjecture that a Schubert variety in affine type A is smooth if and only if the corresponding affine permutation avoids the patterns 4231 and 3412. (Received September 09, 2014)