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Timothy Alland* (tim.alland@okstate.edu), 4817 River View Dr, Fort Worth, TX 76132, and **Edward Richmond**. *A Pattern Avoidance Criteria for Parabolic Fiber Bundle Structures of Schubert Varieties*. Preliminary report.

We prove that a Schubert variety has a fiber bundle structure if and only if the corresponding permutation avoids the split patterns $3|12$ and $23|1$ in a certain way. To do this, we find the necessary conditions for a permutation to have a Billey-Postnikov (BP) decomposition. Continuing, we prove that a Schubert variety has a complete parabolic bundle structure if and only if the corresponding permutation avoids patterns 3412 , 52341 , and 635241 . This combinatorial condition gives a direct way to determine if a Schubert variety has a fiber bundle structure as compared to doing so via the Schubert variety's intersection conditions. (Received September 20, 2016)