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David E Anderson*, 231 W 18th Ave, Columbus, OH 43210. *The direct sum map for classical-type flag varieties.*

The direct sum map sends two flags in a vector space V to their direct sum in the vector space $V \oplus V$. I will describe some variations on this map, along with applications to singularities of Schubert varieties, formulas for Schubert polynomials, and the homology product on an infinite-dimensional Grassmannian. Parts of this come from joint work with W. Fulton, and with T. Ikeda, M. Jeon, and R. Kawago. (Received September 16, 2019)