1048-14-171   **Edward L Richmond*** (`erichmo2@uoregon.edu`). *A multiplicative formula for structure constants in the cohomology of flag varities.*

Let G be a complex semi-simple Lie group and let $P \subseteq Q$ be a pair of parabolic subgroups of G. Consider the flag varieties $G/P, G/Q$ and Q/P. We show that certain structure constants in $H^*(G/P)$ with respect to the Schubert basis can be written as a product of structure constants coming from $H^*(G/Q)$ and $H^*(Q/P)$ in a very natural way. We also give a generalization of this product formula in the branching Schubert calculus setting. (Received February 05, 2009)