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*Positive formulas for Schubert calculus and generalizations in the symplectic category.*

Schubert calculus is the study of (complex) intersections of a specific set of varieties in the flag manifold; the intersection numbers and their generalizations to equivariant cohomology and K-theory are *manifestly positive*, defined in an appropriate sense. I will present results toward finding positive formulas for the structure constants in the corresponding rings, with generalizations to the symplectic category. (Received January 19, 2016)