

Computations in intersection theory

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Abstract:

This is joint work with Alexandra Seceleanu and Michael E. Stillman.

We describe Groebner bases for the ideals of relations between the Chern classes of the tautological bundles on partial flag bundles, and show how the result can be used to enable practical computation of intersection numbers in the "Macaulay2" package "Schubert2". We also generalize the result to cover isotropic flag bundles.