1167-18-253 **Iva Halacheva*** (i.halacheva@northeastern.edu), **Allen Knutson** and **Paul Zinn-Justin**.

Lagrangian correspondences in Schubert calculus for cotangent bundles. Preliminary report.

Central to Schubert calculus is the study of the product structure of certain bases for the cohomology ring of a partial flag variety G/P. In this setting, G is a reductive algebraic group and P is a parabolic subgroup. The most natural such basis is the collection of classes of the Schubert varieties. Recent work considers the upgrade to the cotangent bundle of G/P, together with the collection of Segre-Schwartz-MacPherson classes. I will discuss the transformation of these classes when restricting in cohomology from type A to type C Grassmannians. Namely, in our setting G is GL(2n) or Sp(2n), and P is maximal. This is joint work with Allen Knutson and Paul Zinn-Justin. (Received March 08, 2021)