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Restriction of Maulik-Okounkov classes from type A to type C Grassmannians. Preliminary report.

One of the classical questions in Schubert calculus studies the expansion of the product of two Schubert classes in the Schubert basis, under the pullback of the diagonal inclusion of the Grassmannian. Knutson and Tao gave a positive puzzle formula in 2003 for computing this expansion in equivariant cohomology. We study a similar pullback, of the inclusion of the symplectic Grassmannian into the usual Grassmannian. I will present a puzzle formula describing the expansion of Schubert classes under this map, using self-dual puzzles. I will then discuss a generalization using Maulik-Okounkov classes and a more geometric context for puzzles involving Lagrangian correspondences. This is joint work with Allen Knutson and Paul Zinn-Justin. (Received January 20, 2020)