

Anna Bertiger (Cornell)

The Combinatorics of the Action of the Symplectic Group on Flags in C^{2n}

Abstract for the Combinatorics Seminar 2012 April 10

I will present the seemingly geometric problem of understanding the orbits of the action of the symplectic group on the flag manifold and a very combinatorial plan of attack for studying this problem. Along the way we will meet such combinatorial objects as involutions, permutations matrix Schubert varieties, and pipedreams and also investigate unions of matrix Schubert varieties. I intend for this talk to be friendly with all of the appropriate notions defined.

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Last update: **2020/01/29 19:03**

