SARA BILLEY, Univseristy of Washington
Singularities of generalized Richardson varieties

Richardson varieties play an important role in intersection theory and in the geometric interpretation of the Littlewood-Richardson Rule for flag varieties. We discuss three natural generalizations of Richardson varieties which we call projection varieties, intersection varieties, and rank varieties. In particular, the rank varieties can be described explicitly in combinatorial terms. They are enumerated by dimension using a well known q-analog of Stirling numbers of the second kind.

This is joint work with Izzet Coskun.