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Schubert varieties

Schubert varieties— B -orbit closures in G/B —play an important role in algebraic geometry, representation theory, and combinatorics.

In this talk we will study the question, how to determine the singular locus of a given Schubert variety in the case of G semisimple, and discuss some partial results for the affine (loop) Grassmannian.

Various parts are joint work with J. Carrell and V. Lakshmibai.