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## The arc space of the Grassmannian

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Arc spaces can be used as an effective tool to compute invariants of singularities of algebraic varieties. In this talk, I will explain how this can be achieved for a classical example: the singularities of Schubert varieties inside the Grassmannian. This involves a delicate study of the combinatorics inside of the arc space of the Grassmannian. The main tool I will discuss is a stratification of the arc space which plays the role of a Schubert cell decomposition for lattices. Analyzing the geometric structure of the resulting strata leads to the computation of invariants, mainly the log canonical threshold of pairs involving Schubert varieties.

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