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**Title: Computing parametric systems**

In singularity theory, problems that contain parameters are often studied, for instance, deformation of singularities, families of a singularity or parametric local cohomology classes associated to an isolated singularity have parameters. Since for some values of parameters singularities may be changed or vanished, hence, the values of parameters are strongly needed to study the singularities.

There exist some algorithms for computing parametric systems in computer algebra, namely, one can compute parametric systems by utilizing computer algebra systems. This is one of significant features of computer algebra.

In this talk, first, we introduce parametric Gröbner bases (comprehensive Gröbner systems) that are mainly utilized to compute parametric systems. Second, we show how to compute local Bernstein-Sato polynomials of  $\mu$ -constant deformations of inner modality 2 singularities.