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Geometric bases in cluster algebras

In this talk I will explain how to construct linear bases in acyclic cluster algebras by means of geometric methods in representation theory of quivers.

I will introduce the notion of generic variables in an arbitrary acyclic cluster algebra and show that it provides an explicit basis in the affine case.

I will also provide a geometric realization of another kind of bases, putting into context the results of Sherman–Zelevinsky and Cerulli on "canonically positive bases".