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Semi-invariant rings and complete intersections

Rings of semi-invariants of quivers (with relations) capture a lot of the geometry of the module varieties over finite dimensional algebras. They can be used to construct moduli spaces of representations, and their weight spaces can give us information on the representation type of the algebra. Not much is known about the structure of these rings, in general. In this talk, we will analyse the cases where we have an irreducible component with orbits of small co-dimension and show that under some conditions, we get that these semi-invariant rings are complete intersections. This is joint work with Deepanshu Prasad and David Wehlau.