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Tangent schemes of determinantal varieties

Determinantal varieties are defined by the vanishing of all minors of a given size in a matrix of indeterminates. Their geometric and algebraic properties are generally well understood; in particular, we know how to compute the Betti numbers of their defining ideals. This talk will present work in progress on tangent schemes of determinantal varieties showing how, in some cases, we can similarly understand their geometric properties and also compute their Betti numbers.