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Sparse mixed discriminants, toric jacobians, and iterated discriminants

Sparse mixed discriminants characterize those polynomial systems with fixed supports, which define a singular variety. We will discuss the relation between sparse mixed discriminants and the resultant of the given polynomials and their toric jacobian, which yields a multiplicativity formula for sparse mixed discriminants. We will also discuss conditions for mixed discriminants to be computed via iterated discriminants, with possible extra factors coming from the singularities of the discriminantal locus.