

SUBRESULTANTS AND THE SHAPE LEMMA

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In nice cases, a zero-dimensional complete intersection ideal over a field has a Shape Lemma. There are also cases where the ideal is generated by the resultant and first subresultant polynomials of the generators. This situation has been explored by Agnes Szanto in some earlier papers in her academic career. We will review them and explore the relation between these representations, and also study when the resultant generates the elimination ideal.

Joint work with David Cox (Amherst College, USA).