

ACMS Applied Math Seminar

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Thursday, Sept. 10
154 Hurley Hall
3:30- 4:30 PM



Subresultants in Roots

Subresultant, a generalization of resultant, plays a fundamental role in computational algebra and computational algebraic geometry.

Subresultants are defined in terms of the coefficients of the polynomials. The definition is convenient for computation (algebra), but not so useful for reasoning (geometry).

In this talk, we review various “nice” expressions for subresultants that are useful for reasoning. In particular, we show several ways to express the subresultants in terms of the roots of the polynomials.

The Department of Applied and Computational
Mathematics and Statistics

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