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Vanishing Polynomials at Sets of Empirical Points

Martedì 15 febbraio 2011 - ore 11:00
(Aula Seminari di Matematica)

Abstract:

Abstract: Let X be a set of points whose coordinates are known with limited accuracy and up to a tolerance epsilon>0; any other set of points whose difference from the corresponding element of X is less than epsilon is regarded as an admissible perturbation equivalent to X. We present a method to compute a monic polynomial f^* of low degree and an admissible perturbation X^* of X at which f^* vanishes.

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