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Solving the Rational Hermite Interpolation Problem

Abstract: The Rational Hermite Interpolation Problem is an extension of the classical Polynomial Interpolation one, and there are several approaches to it: Euclidean algorithm, Linear Algebra with structured matrices, barycentric coordinates, orthogonal polynomials, computation of syzygies,.... In this talk, we will review some of these methods along with the study of their complexity. This is a joint work with Teresa Cortadellas and Eulalia Montoro.