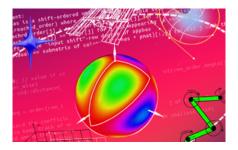
Geometry of Polynomial System Solving, Optimization and Topology



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Non-negativity and rational sums of squares over zero-dimensional varieties by Teresa Krick

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Abstract. In this work in progress with Lorenzo Baldi and Bernard Mourrain, we extend previous results on univariate rational sums of squares, obtained with Bernard and Agnes Szanto, to the case of a non-negative rational polynomial on a basic zero-dimensional semi-algebraic set defined by rational polynomials.