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Aula 1 del C.R.M.

Exponential sums and polynomial congruences in two variables

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ABSTRACT: We show how ideas of Phong/Stein/Sturm and Ikromov/Muller from real analysis can be used in discrete settings, giving sharp estimates for exponential sums and the number of solutions to congruences for general quasi-homogeneous polynomials in two variables with integer coefficients.