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Improving Estimates for Discrete Polynomial Averages.

In this talk, we will discuss some recent results on discrete l^p improving estimates for averages along polynomial curves, including sharp results for quadratic polynomials, prime numbers, and asymptotically optimal results for general polynomials. This talk is based on joint works with Vjekoslav Kovač, Ben Krause, Michael Lacey, Jose Madrid, and Fan Yang. (Received September 19, 2021)