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POLYNOMIAL OF LEAST DEVIATION FROM ZERO IN SOBOLEV p -NORMS

The first part of this talk complements previous results on the characterization of polynomials of least deviation from zero in Sobolev p -norm ($1 < p < \infty$) for the case $p = 1$. Some relevant examples are indicated. The second part deals with the location of zeros of polynomials of least deviation in discrete Sobolev p -norm. The asymptotic distribution of zeros is established on general conditions.

Joint work with Héctor Pijeira Cabrera and Abel Díaz González.