

LEN BOS, University of Calgary, Calgary, Alberta
Metrics Associated to Polynomial Inequalities

Suppose that K is a compact subset of R^n . We discuss a number of metrics on K that are closely related to Markov–Bernstein type inequalities on the derivatives of polynomials, as well as to the Siciak–Zahariuta extremal function for K as a subset of C^n . We also discuss some conjectured relations between these metrics and the distribution of extremal point sets such as Fekete points.