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Transfinite diameter with generalized polynomial degree. (English) Zbl 1460.32074

Summary: We prove a Chebyshev transform formula for a notion of (weighted) transfinite diameter that is defined using a generalized notion of polynomial degree. We also generalize Leja points to this setting. As an application of our main formula, we prove that in the unweighted case, these generalized Leja points recover the transfinite diameter.

MSC:
32U20 Capacity theory and generalizations
32U15 General pluripotential theory

Keywords:
Chebyshev constant; Chebyshev transform; convex body; polynomial degree; submultiplicative function; transfinite diameter

Full Text: DOI

References:

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