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THE ASYMPTOTIC DISTRIBUTION OF GENERAL INTERPOLATION ARRAYS FOR EXPONENTIAL WEIGHTS *

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Abstract. We study the asymptotic distribution of general interpolation arrays for a large class of even exponential weights on the line and $(-1, 1)$. Our proofs rely on deep properties of logarithmic potentials. We conclude with some open problems.

Key words. asymptotic distribution, Freud weight, Erdős weight, exponential weight, interpolation, Lebesgue constant, logarithmic potential, Pollaczek weight, sup norm, weighted approximation.

AMS subject classifications. 42C15, 42C05, 65D05.

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