ON THE SUPPORT OF THE EQUILIBRIUM MEASURE FOR ARCS OF THE UNIT CIRCLE AND FOR REAL INTERVALS∗

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Dedicated to Ed Saff on the occasion of his 60th birthday

Abstract. We study the support of the equilibrium measure for weights defined on arcs of the unit circle and on intervals of the compactified real line. We provide several conditions to ensure that the support of the equilibrium measure is one interval or one arc.

Key words. logarithmic potential theory, external fields, equilibrium measure, equilibrium support

AMS subject classifications. 31A15, 30C15, 78A30

∗Received May 14, 2005. Accepted for publication January 6, 2006. Recommended by D. Lubinsky.
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