

**WEIGHTED ENERGY PROBLEM ON THE UNIT CIRCLE AND
ON THE REAL LINE**

DAVID BENKO

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. This is a joint result with S. B. Damelin and P. D. Dragnev.