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Muhammed A Alan* (malan@math.jhu.edu), Johns Hopkins University Department of Math,
404 Krieger Hall, 3400 N. Charles Street, Baltimore, MD 21218. *Weighted Capacities in
Pluripotential Theory*. Preliminary report.

Capacities are important tools in Potential Theory and Pluripotential Theory. We define weighted versions of Tchebychev constants and Alexander-Siciak capacity and give the relation between them. We also define weighted polynomials hulls of compact sets. (Received August 09, 2010)