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J. Xiao* (jxiao@mun.ca), Department of Mathematics & Statistics, Memorial University, St. John's, NL A1C5S7, Canada. *p-harmonic capacity problem in planar convex ring*. Preliminary report.

This talk will address some geometric properties on the non-negative solutions of p-Laplace equation on a planar convex ring such as: optimal estimates for the area and perimeter of a level set of either p-capacity potential or p-Green function of a bounded convex domain; variational formula and prescription of p-capacity measure attached to p-Green function of the complement of a convex body. (Received August 13, 2013)