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A counterexample to quasi-concavity for the Gaussian p-Capacity in convex rings.

In classical theory, the Capacitary potential of a convex ring has convex level sets. In this talk, we show that the analogous quasi-concavity property fails for Gaussian p-Capacity. More precisely, we construct a convex ring whose inner and outer boundaries are both strictly convex, but whose Gaussian p-capacitary potential possesses a nonconvex intermediate level set.