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Dorina Mitrea* (mitread@missouri.edu), University of Missouri, Department of Mathematics, 202 Math. Sci. Bldg., Columbia, MO 65211. *Characterizing Lyapunov domains via Riesz transforms on Hölder spaces*. Preliminary report.

We show that under mild geometric measure theoretic assumptions on a domain, the condition that the domain is Lyapunov is equivalent with having the Riesz transforms continuous on the corresponding Hölder space of its boundary. (Received August 22, 2014)