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*Mappings with subexponentially integrable distortion.* Preliminary report.

We examine mappings of finite distortion whose distortion functions are locally subexponentially integrable. We establish a local modulus of continuity estimate for the inverses of such maps, describe the possible expansion and compression of certain Hausdorff measures and Minkowski contents under such mappings, and exhibit examples that describe the extent to which our results are sharp. (Received January 03, 2014)