

On singular strictly convex solutions to the Monge-Ampère equation

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Abstract. We show the existence of a strictly convex function $u : B_1 \rightarrow \mathbb{R}$ with associated Monge-Ampère measure represented by a function f with $0 < f < 1$ a.e. whose Hessian has a singular part. This extends the work [13] and answers an open question of [14, Section 6.2(1)].

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