Pogorelov, A. V.
On a theorem of Beltrami. (English. Russian original) [Zbl 0749.53009]
Sov. Math., Dokl. 43, No. 1, 83-85 (1991); translation from Dokl. Akad. Nauk SSSR 316, No. 2, 297-299 (1991).

All known proofs of the Beltrami’s theorem, stating that a Riemannian space, that admits a locally geodesic map onto a Euclidean space, is a space of constant curvature, assume, that the metric of the space is sufficiently regular, at least twice differentiable. The purpose of this paper is to prove Beltrami’s theorem with the assumption, that the metric is only continuous.

Reviewer: A.Bucki (Williamsport)

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