Retraction Note

Retraction Note to: A $C^{1,\alpha}$ partial regularity result for non-autonomous convex integrals with discontinuous coefficients

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Retraction Note to: Nonlinear Differ. Equ. Appl.

<https://doi.org/10.1007/s00030-015-0324-3>

The author has retracted this article [1]. The proof of Theorem 1 contains a mistake that can't be corrected with an erratum. In equation (4.1) it is assumed that the average of $|k|^n$ over a ball $B_R(x_0)$ is bounded by a constant and this doesn't imply that the average remains bounded for every smaller concentric ball. This boundedness at every smaller scale is necessary to perform the iteration procedure. Assuming that such boundedness holds at every scale would lead to a singular set of full measure but whose complementary is not necessarily open and this would prevent the use of the characterization of the Holder's continuous functions by Campanato.

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Reference

- [1] Passarelli di Napoli, A.: A $C^{1,\alpha}$ partial regularity result for non-autonomous convex integrals with discontinuous coefficients. *Nonlinear Differ. Equ. Appl.* **22**, 1319–1343 (2015). <https://doi.org/10.1007/s00030-015-0324-3>

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