



Correction to: A Geometric View on the Generalized Proudman–Johnson and r -Hunter–Saxton Equations

Martin Bauer¹ · Yuxiu Lu¹ · Cy Maor²

Received: 9 May 2023 / Accepted: 9 May 2023 / Published online: 29 June 2023

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Correction to: J Nonlinear Sci

<https://doi.org/10.1007/s00332-021-09775-5>

The article “A geometric view on the generalized Proudman–Johnson and r -Hunter–Saxton equations” Bauer et al. (2022) concerns the study of two families of equations: the generalized inviscid Proudman–Johnson equation, and the r -Hunter–Saxton equation. There, we investigate these equations both on the real line and the circle and claim that they are equivalent for both cases. This statement was wrong, as the equations are only equivalent when considered on the real line. As a consequence the results on the circle (Section 3) are only valid for the r -Hunter–Saxton equations and do not hold for the generalized inviscid Proudman–Johnson equations. The results on the real line (Section 2) are valid as written.

Reference

Bauer, M., Lu, Y., Maor, C.: A geometric view on the generalized proudman-johnson and r -hunter-saxton equations. *Journal of Nonlinear Science* **32**(1), 17 (2022)

Publisher's Note Springer Nature remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.

The original article can be found online at <https://doi.org/10.1007/s00332-021-09775-5>.

✉ Martin Bauer
bauer@math.fsu.edu
Yuxiu Lu
yl18f@my.fsu.edu
Cy Maor
cy.maor@mail.huji.ac.il

¹ Department of Mathematics, Florida State University, Tallahassee, USA

² Einstein Institute of Mathematics, The Hebrew University of Jerusalem, Jerusalem, Israel