

Accepted Manuscript

An explicit hybrid finite difference scheme for the Allen–Cahn equation

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PII: S0377-0427(18)30105-5
DOI: <https://doi.org/10.1016/j.cam.2018.02.026>
Reference: CAM 11532

To appear in: *Journal of Computational and Applied Mathematics*

Received date: 6 April 2016
Revised date: 25 October 2017

Please cite this article as: D. Jeong, J. Kim, An explicit hybrid finite difference scheme for the Allen–Cahn equation, *Journal of Computational and Applied Mathematics* (2018), <https://doi.org/10.1016/j.cam.2018.02.026>

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Highlights

- We propose an explicit hybrid numerical method for solving the Allen—Cahn equation.
- The proposed method is based on an operator splitting method.
- We show the stability condition of the proposed numerical scheme.
- We show the pointwise boundedness of the solution under a solvability condition.

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