



Title of the publication

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Submitted to Proceedings of the National Academy of Sciences of the United States of America

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Keyword1 | Keyword2 | Keyword3

Abbreviations: SAM, self-assembled monolayer; OTS, octadecyltrichlorosilane

Introduction

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$$\frac{D\theta}{Dt} = \frac{\partial\theta}{\partial t} + u \cdot \nabla\theta = 0 \hspace{1cm} [1$$

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Results

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Simulations.

Simulation 1

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Simulation 2

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Discussion

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Materials and Methods

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Definition 1. A bounded function θ is a weak solution of QG if for any $\phi \in C_0^{\infty}(\mathbb{R}/\mathbb{Z} \times \mathbb{R} \times [0, \varepsilon])$ we have

$$\begin{split} &\int_{\mathbb{R}^{+}\times\mathbb{R}/\mathbb{Z}\times\mathbb{R}}\theta(x,y,t)\,\partial_{t}\phi\left(x,y,t\right)dydxdt + \\ &+ &\int_{\mathbb{R}^{+}\times\mathbb{R}/\mathbb{Z}\times\mathbb{R}}\theta\left(x,y,t\right)u(x,y,t)\cdot\nabla\phi\left(x,y,t\right)dydxdt = 0 \end{aligned} \eqno{[2]}$$

where u is determined previously.

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Theorem 1. If the active scalar θ satisfies the equation [??], then φ satisfies the equation

$$\frac{\partial \varphi}{\partial t}(x,t) = \int_{\mathbb{R}/\mathbb{Z}} \frac{\frac{\partial \varphi}{\partial x}(x,t) - \frac{\partial \varphi}{\partial u}(u,t)}{\left[(x-u)^2 + (\varphi(x,t) - \varphi(u,t))^2\right]^{\frac{1}{2}}} \chi(x-u,\varphi(x,t) - \varphi(u,t))du + \int_{\mathbb{R}/\mathbb{Z}} \left[\frac{\partial \varphi}{\partial x}(x,t) - \frac{\partial \varphi}{\partial u}(u,t)\right] \eta(x-u,\varphi(x,t) - \varphi(u,t))du + Error \quad [3]$$

with $|Error| \le C \, \delta |log\delta|$ where C depends only on $\|\theta\|_{L^{\infty}}$ and $\|\nabla \varphi\|_{L^{\infty}}$.

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Appendix

An appendix without a title.

Appendix: Appendix title

An appendix with a title.

ACKNOWLEDGMENTS. This work was partially supported by a grant from the Spanish Ministry of Science and Technology.

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Placeholder Image

Fig. 1. Figure caption

Table 1. Table caption

Treatments	Response 1	Response 2
Treatment 1	0.0003262	0.562
Treatment 2	0.0015681	0.910
Treatment 3	0.0009271	0.296

