

# Review on “The best privacy defense is a good privacy offense: obfuscating a search engine user’s profile”

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Submitted to the faculty of science and technology at Jean Monnet University

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Keyword1 | Keyword2 | Keyword3

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

## Introduction

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

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## Results

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## Simulations.

## Simulation 1

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## Discussion

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## Materials and Methods

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**Definition 1.** A bounded function  $\theta$  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

$$\int_{\mathbb{R}^+ \times \mathbb{R}/\mathbb{Z} \times \mathbb{R}} \theta(x, y, t) \partial_t \phi(x, y, t) dy dx dt + \int_{\mathbb{R}^+ \times \mathbb{R}/\mathbb{Z} \times \mathbb{R}} \theta(x, y, t) u(x, y, t) \cdot \nabla \phi(x, y, t) dy dx dt = 0 \quad [2]$$

where  $u$  is determined previously.

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**Theorem 1.** If the active scalar  $\theta$  satisfies the equation [2], then  $\varphi$  satisfies the equation

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

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

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## Appendix

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### Appendix: Appendix title

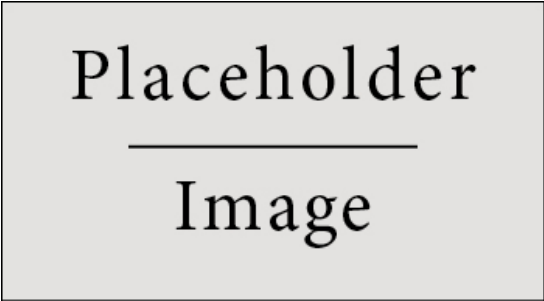
An appendix with a title.

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

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**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