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ELIZABETH CARLSON, JOSHUA HUDSON, AND ADAM LARIOS

Abstract. Abstract goes here. (Don't write until we are finished.)

1. Introduction

Introduction goes here. (Don't write until we are finished.)

2. Preliminaries

Preliminaries section. Put basic lemmas, theorems, and definitions here (i.e., the ones we are going to cite).

Here is how to cite references: [**?** **?** **?**] and the references therein.

3. Main Section

Main theorems, proofs, and other results go here.

All displayed equations should be done with the `\align` or the `\alignat` environment, unless there is a good reason not to. For example, here are the incompressible Navier-Stokes equations for $\Omega \subset \mathbb{R}^n$:

$$\partial_t \mathbf{u} + (\mathbf{u} \cdot \nabla)\mathbf{u} = -\nabla p + \nu \triangle \mathbf{u} + \mathbf{f}, \qquad \text{in } \Omega \times [0, T], \tag{3.1a}$$

$$\nabla \cdot \mathbf{u} = 0, \qquad \text{in } \Omega \times [0, T], \tag{3.1b}$$

$$\mathbf{u}(\mathbf{x}, 0) = \mathbf{u}_0(\mathbf{x}), \qquad \text{in } \Omega. \tag{3.1c}$$

Here is an energy estimate:

$$\begin{aligned} \frac{1}{2}\frac{d}{dt}\|\mathbf{u}\|_{L^2}^2 + \nu\|\nabla \mathbf{u}\|_{L^2}^2 = (\mathbf{f}, \mathbf{u}) &\leq \|\mathbf{f}\|_{L^2}^2 \|\mathbf{u}\|_{L^2}^2 \\ &\leq \frac{1}{2\nu}\|\mathbf{f}\|_{L^2}^2 + \frac{\nu}{2}\|\mathbf{u}\|_{L^2}^2 \end{aligned}$$

You can leave notes in the margin, or inline notes, like the one below. Margin note.

Here is an inline note

Date: January 23, 2018.

Key words and phrases. (Don't write until we are finished.)

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(Elizabeth Carlson) Department of Mathematics, University of Nebraska–Lincoln, Lincoln, NE 68588-0130, USA
E-mail address, Elizabeth Carlson: elizabeth.carlson@huskers.unl.edu

(Joshua Hudson) Department of Mathematics & Statistics, University of Maryland, Baltimore County, 1000 Hilltop Circle., Baltimore, MD 21250, USA
E-mail address, Joshua Hudson: JoshuaHudson@umbc.edu

(Adam Larios) Department of Mathematics, University of Nebraska–Lincoln, Lincoln, NE 68588-0130, USA
E-mail address, Adam Larios: alarios@unl.edu