A title

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Abstract

Short explanation of some important results.

1 Introduction

An introduction

$$\mathrm{i}\partial_t\psi = (-\Delta + V_\epsilon)\psi - g(|\psi|^2)\psi \ , \tag{1.1}$$

In this introduction (1.1) is discussed. Discussion. In Appendix A nothing is ever said. We use bibtex to add references, here we only have 3 such [3, 2, 1]

Question 1. *To be or not to be?*

Remark 1. *A remark like the question 1 is really old! See Willy!*

A The appendix

Nothing is ever said here, but in Section 1 they mention an equation (1.1). An equation

$$\mathrm{i}\partial_t\psi = (-\Delta + V_\epsilon)\psi - g(|\psi|^2)\psi \ , \tag{A.1}$$

Theorem 1. *A presumable true statement.*

Proof of Theorem 1. The waterproof proof of the statement. □

*authors are having fun writing this.

B End of Document

$$e^{i\pi} = -1, \tag{B.1}$$

Nice symbols come with ams package: $\mathbb{R}$ Also proof:

Proof. This is no proof. □

References

[1] T. Cazenave. *An introducion to nonlinear Schrödinger equations*. Instituto de Matematica - UFRJ, Rio de Janeiro, RJ, second edition, 1993.

[2] J. Frölich, T.-P. Tsai, and H.-T. Yau. On the point-particle (newtonian limit of the non-linear hartree equation. *Comm. Math. Phys.*, 225(2):223–274, 2002.

[3] A. Soffer and M. I. Weinstein. Multichannel nonlinear scattering for nonintegrable equations II. The case of anisotropic potentials and data. *J. Differential Equations*, 98(2):376–390, 1992.