A second solution to the Benjamin–Bona–Mahony equation

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Abstract

In this paper, I describe a second solution to the Benjamin–Bona–Mahony equation. The paper ends with "The End"

Introduction

The **Benjamin–Bona–Mahony equation** [1] is

$$\frac{\partial}{\partial t}u(x,t) + \frac{\partial}{\partial x}u(x,t) + u(x,t)\frac{\partial}{\partial x}u(x,t) - \frac{\partial}{\partial t}\frac{\partial}{\partial x}\frac{\partial}{\partial x}u(x,t) = 0$$

In a previous paper, I've described a solution to the Benjamin–Bona–Mahony equation.

In this paper, I describe a second solution to the Benjamin–Bona–Mahony equation.

A second solution to the Benjamin–Bona–Mahony equation

A second solution to the Benjamin–Bona–Mahony equation is

$$u(x,t) = \frac{a(x-t)}{1+at}$$

References

[1] https://en.wikipedia.org/wiki/Benjamin-Bona-Mahony equation

The End