



# Solving Nonlinear Wave Equations Based on Barycentric Lagrange Interpolation

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## Abstract

In this paper, we deeply study the high-precision barycentric Lagrange interpolation collocation method to solve nonlinear wave equations. Firstly, we introduce the barycentric Lagrange interpolation and provide the differential matrix. Secondly, we construct a direct linearization iteration scheme to solve nonlinear wave equations. Once again, we use the barycentric Lagrange interpolation to approximate the  $(2+1)$  dimensional nonlinear wave equations and  $(3+1)$  dimensional nonlinear wave equations, and describe the matrix format for direct linearization iteration of the nonlinear wave equations. Finally, the comparative experiments show that the barycentric Lagrange interpolation collocation method for solving nonlinear wave equations have higher calculation accuracy and convergence rate.

**Keywords** Barycentric Lagrange interpolation · Differential matrix · Linearized iterative format · Nonlinear wave equation

## 1 Introduction

As a type of nonlinear model to describe natural wave phenomena, the effective solution of nonlinear wave equations can not only help understand the motion laws of waves under nonlinear effects [1], but also promote the development of related disciplines and engineering fields, such as fluid mechanics [2], electromagnetic waves [3] and nonlinear optics [4]. Establishing accurate nonlinear wave models is an inevitable issue to study nonlinear science. However, most nonlinear problems

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# Algebraic And Spectral Methods For Nonlinear Wave Equations

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