



Stable Filtering Procedures for Nodal Discontinuous Galerkin Methods

Jan Nordström^{1,2} · Andrew R. Winters¹

Received: 22 July 2020 / Revised: 18 November 2020 / Accepted: 13 February 2021
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Abstract

We prove that the most common filtering procedure for nodal discontinuous Galerkin (DG) methods is stable. The proof exploits that the DG approximation is constructed from polynomial basis functions and that integrals are approximated with high-order accurate Legendre–Gauss–Lobatto quadrature. The theoretical discussion re-contextualizes stable filtering results for finite difference methods into the DG setting. Numerical tests verify and validate the underlying theoretical results.

Keywords Discontinuous Galerkin · Filtering · Stability · Transmission problem

1 Introduction

High frequency errors are always present in numerical simulations due to inaccuracies of the spatial derivatives at high-wave numbers. A common technique to combat such errors is to use a filter operator that removes high wave number oscillations, e.g. [7, Sect. 5.3]. The filtering procedure is separate from the scheme itself, and is often done in an ad hoc fashion. Filtering is applied “as little as possible, but as much as needed”.

Recently, Lundquist and Nordström [11] removed the ad hoc nature of filtering in finite difference (FD) methods. They derive a contractivity condition on the explicit filter matrix by re-framing the filtering procedure as a transmission problem [13]. The work in [11] develops a necessary condition for the filter matrix and how it must be related to the particular discrete quadrature rule.

The goal of the present work is to remove the ad hoc nature of the nodal DG filtering procedure and prove that the commonly used explicit filter technique from the spectral community [5,6] is stable. Just as in the case of FD methods, the stability of the filtering for

Jan Nordström
jan.nordstrom@liu.se
Andrew R. Winters
andrew.ross.winters@liu.se

¹ Department of Mathematics; Computational Mathematics, Linköping University, SE-581 83 Linköping, Sweden

² Department of Mathematics and Applied Mathematics, University of Johannesburg, P.O. Box 524, Auckland Park 2006, Johannesburg, South Africa

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Table of Contents Nodal Discontinuous Galerkin Methods Nodal Discontinuous Galerkin Methods

1. Understanding the eBook Nodal Discontinuous Galerkin Methods Nodal Discontinuous Galerkin Methods
 - The Rise of Digital Reading Nodal Discontinuous Galerkin Methods Nodal Discontinuous Galerkin Methods
 - Advantages of eBooks Over Traditional Books
2. Identifying Nodal Discontinuous Galerkin Methods Nodal Discontinuous Galerkin Methods
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Nodal Discontinuous Galerkin Methods Nodal Discontinuous Galerkin Methods
 - User-Friendly Interface
4. Exploring eBook Recommendations from Nodal Discontinuous Galerkin Methods Nodal Discontinuous Galerkin Methods
 - Personalized Recommendations
 - Nodal Discontinuous Galerkin Methods Nodal Discontinuous Galerkin Methods User Reviews and Ratings
 - Nodal Discontinuous Galerkin Methods Nodal Discontinuous Galerkin Methods and Bestseller Lists
5. Accessing Nodal Discontinuous Galerkin Methods Nodal Discontinuous Galerkin Methods Free and Paid eBooks
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 - Nodal Discontinuous Galerkin Methods Nodal Discontinuous Galerkin Methods eBook Subscription Services

- Nodal Discontinuous Galerkin Methods Nodal Discontinuous Galerkin Methods Budget-Friendly Options
- 6. Navigating Nodal Discontinuous Galerkin Methods Nodal Discontinuous Galerkin Methods eBook Formats
 - ePub, PDF, MOBI, and More
 - Nodal Discontinuous Galerkin Methods Nodal Discontinuous Galerkin Methods Compatibility with Devices
 - Nodal Discontinuous Galerkin Methods Nodal Discontinuous Galerkin Methods Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Nodal Discontinuous Galerkin Methods Nodal Discontinuous Galerkin Methods
 - Highlighting and Note-Taking Nodal Discontinuous Galerkin Methods Nodal Discontinuous Galerkin Methods
 - Interactive Elements Nodal Discontinuous Galerkin Methods Nodal Discontinuous Galerkin Methods
- 8. Staying Engaged with Nodal Discontinuous Galerkin Methods Nodal Discontinuous Galerkin Methods
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Nodal Discontinuous Galerkin Methods Nodal Discontinuous Galerkin Methods
- 9. Balancing eBooks and Physical Books Nodal Discontinuous Galerkin Methods Nodal Discontinuous Galerkin Methods
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Nodal Discontinuous Galerkin Methods Nodal Discontinuous Galerkin Methods
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Nodal Discontinuous Galerkin Methods Nodal Discontinuous Galerkin Methods
 - Setting Reading Goals Nodal Discontinuous Galerkin Methods Nodal Discontinuous Galerkin Methods
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Nodal Discontinuous Galerkin Methods Nodal Discontinuous Galerkin Methods
 - Fact-Checking eBook Content of Nodal Discontinuous Galerkin Methods Nodal Discontinuous Galerkin Methods
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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