

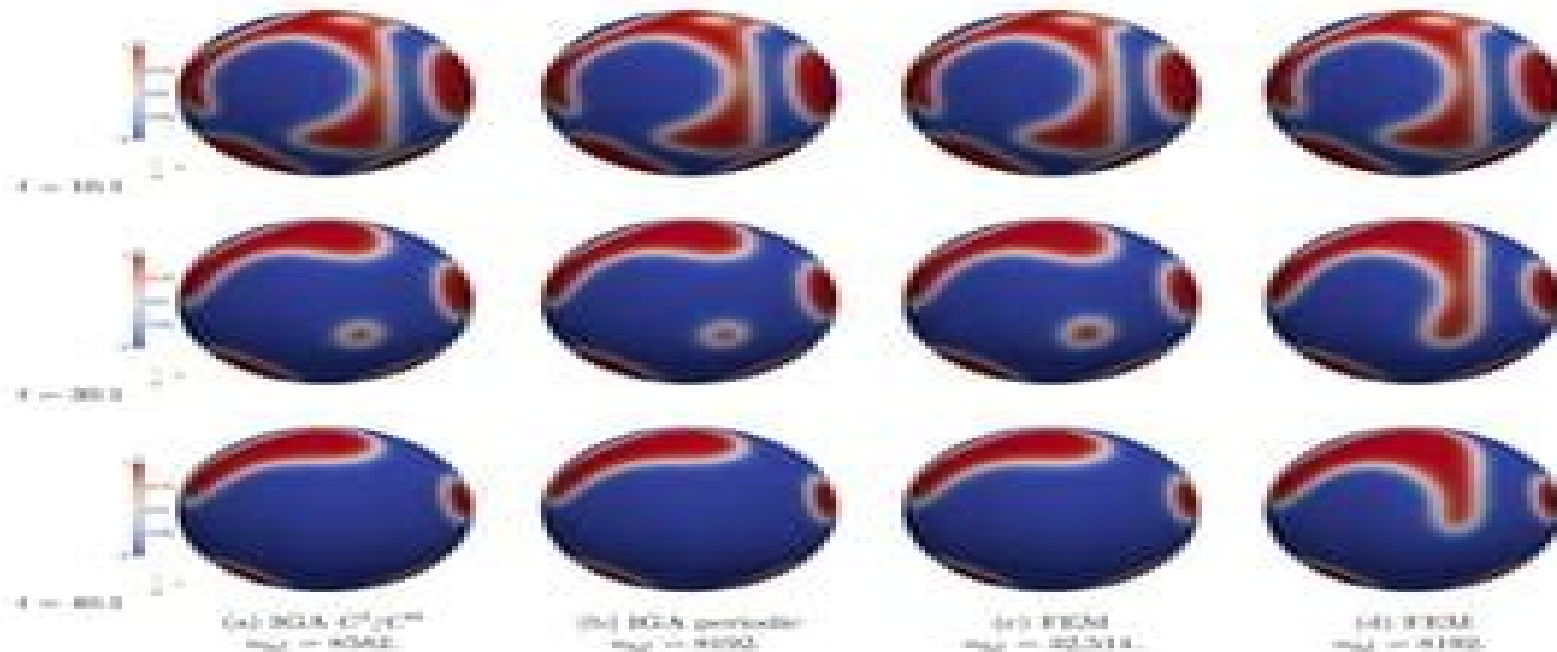


Fig. 16. Cahn–Allen equation on a sphere. Approximate solutions obtained at different times by Isogeometric Analysis (BGA) for C^0 periodic basis functions with $n_{BG} = 8192$ (a), BGA for periodic basis functions with $n_{BG} = 8192$ (b), Isogeometric Finite Elements (FEM) with $n_{FEM} = 32,514$ (c), and FEM with $n_{FEM} = 8192$ (d).

addition, we consider for the Isogeometric Finite Element method a case with a mesh of $n_{BG} = 2048$ elements and $n_{FEM} = 8006$ in order to compare the results with Isogeometric Analysis by using approximately the same number of degrees of freedom rather than the same mesh size. A fixed time step $\Delta t = 1.0 \cdot 10^{-3}$ is used for all the numerical simulations, with the final time $T = 500$. In Fig. 16 we report the concentrations $w(\mathbf{x}, t)$ obtained for the four spatial discretizations discussed before at three significant time steps; we highlight that the result obtained with Isogeometric Finite Elements for $n_{BG} = 8192$, i.e. for the “coarse” mesh, qualitatively differs from the other cases, a situation which is mainly related to the geometrical approximation of the sphere. This is also confirmed in Fig. 17 by the behavior of the (normalized) free energy functionals $\bar{\Psi}(t)/\bar{\Psi}(0)$ vs. the time t , for which significant discrepancies of the energy are highlighted for the case of Isogeometric Finite Elements with a relatively coarse mesh with respect to Isogeometric Analysis approximations with approximately the same number of degrees of freedom.

7. Conclusions

In this work we showed the efficacy of Isogeometric Analysis for the numerical approximation of PDEs defined on lower dimensional manifolds, specifically on surfaces. We considered different linear and nonlinear, elliptic and parabolic PDEs with second order spatial operators of the Laplace–Beltrami type; examples include the eigenvalue problems, the time dependent advection–diffusion equation, and the Cahn–Allen equation. We highlighted the capability of Isogeometric Analysis of facilitating the encapsulation of the exact surface representations in the analysis at their coarsest level of discretizations, especially for geometries as cylindrical and spherical shells approximated by NURBS. Moreover, we provided a priori error estimates under h -refinement for the numerical approximation of

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Table of Contents Quarteroni Solutions Manual

1. Understanding the eBook Quarteroni Solutions Manual
 - The Rise of Digital Reading Quarteroni Solutions Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Quarteroni Solutions Manual
 - 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 Quarteroni Solutions Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Quarteroni Solutions Manual

- Personalized Recommendations
- Quarteroni Solutions Manual User Reviews and Ratings
- Quarteroni Solutions Manual and Bestseller Lists
- 5. Accessing Quarteroni Solutions Manual Free and Paid eBooks
 - Quarteroni Solutions Manual Public Domain eBooks
 - Quarteroni Solutions Manual eBook Subscription Services
 - Quarteroni Solutions Manual Budget-Friendly Options
- 6. Navigating Quarteroni Solutions Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Quarteroni Solutions Manual Compatibility with Devices
 - Quarteroni Solutions Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Quarteroni Solutions Manual
 - Highlighting and Note-Taking Quarteroni Solutions Manual
 - Interactive Elements Quarteroni Solutions Manual
- 8. Staying Engaged with Quarteroni Solutions Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Quarteroni Solutions Manual
- 9. Balancing eBooks and Physical Books Quarteroni Solutions Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Quarteroni Solutions Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Quarteroni Solutions Manual
 - Setting Reading Goals Quarteroni Solutions Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Quarteroni Solutions Manual

- Fact-Checking eBook Content of Quarteroni Solutions Manual
- 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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