

Project:

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LehrFEM - Exercise and Demonstration Software for Education in Numerics of Partial Differential Equations

Researcher(s): Responsible: Prof. Dr. R. Hiptmair
Project leader: Holger Heumann, formerly Patrick Meury
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Duration: ongoing – started in 2004

The main goal of this project is to develop clearly structured MATLAB code, which can be used for the education of undergraduate students in the lecture Numerics of partial differential equations. This code should possess the following features:

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- It should be possible for the Lecturer to carry simple numerical experiments, either in the Lecture itself, or to be able to present and discuss the results which have been obtained previously.
- It should provide the student a programming environment, in which he can implement, modify and investigate methods which are used when solving numerical partial differential equations.

This project will make the overall education of the students more closely related to research, the students will learn how to carry out numerical experiments and they will develop efficient skills for the implementation of numerical schemes.