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GetDP is a high-level finite element solver using mixed elements to discretize de Rham-type complexes in one, two and

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GetDP: a General Finite-Element Solver for the de Rham Complex C. Geuzaine, Universit e de Li ege July 18, 2007 Joint work with P. Dular 1. History Started at the end of 1996 First feature-complete public release (binary-only): mid-1998 Open-sourced under GNU GPL in 2004 Design: Small, fast, no GUI

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GetDP: a General Finite-Element Solver for the de Rham Complex C. Geuzaine, Universit´e de Li`ege July 18, 2007 Joint work with P. Dular 1 GetDP: a General Finite-Element Solver for the de Rham Complex GetDP is a general finite element solver that uses mixed finite elements to discretize de Rham-type complexes in one, two and three dimensions.

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GetDP is a high-level finite element solver using mixed elements to discretize de Rham-type complexes in one, two and three dimensions. This paper presents an overview of the structure of GetDP, highlighting the closeness between the organization of data defining a discrete problem and its symbolic mathematical description. 1 Introduction

GetDP: a general finite-element solver for the de Rham complex

GetDP (a "General environment for the treatment of Discrete Problems") is a scientific software environment for the

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numerical solution of integro-differential equations, open to the coupling of physical problems (electromagnetic, thermal, etc.) as well as of numerical methods (finite element method, integral methods, etc.).

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The generalized finite element method (GFEM) uses local spaces consisting of functions, not necessarily polynomials, that reflect the available information on the unknown solution and thus ensure good local approximation. Then a partition of unity is used to “bond” these spaces together to form the approximating subspace. The effectiveness of GFEM has been shown when applied to problems with domains having complicated boundaries, problems with micro-scales, and problems with boundary layers.

Finite element method - Wikipedia

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getdp - software.opensuse.org

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GetDP Alternatives and Similar Software - AlternativeTo.net

ONELAB can interface finite element and related software (ONELAB clients) in two ways: By directly embedding the ONELAB C++ library or the ONELAB Python module. This is what GetDP (a finite element solver for electromagnetism, heat transfer, acoustics and generic PDEs), Gmsh (a mesh generator with built-in CAD engine and post-processor) and the ONELAB mobile

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[GetDP - Mathematical software - swMATH](#)

We present a general framework to solve non-linear EVPs suitable for a Finite Element (FE) discretization. The implementation is based on the open-source finite element software GetDP and the open-source library SLEPc.

[Non-linear eigenvalue problems with GetDP and SLEPc ...](#)

An Open Source general finite element solver for Linux that uses mixed elements. GetDP is an open source and totally free command-line software project that provides a general environment for the...

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