

algebraic computing in general pdf

Algebraic Computing i.e. the use of computers to manipulate formulae, has been used in general relativity since about 1965. A very early example was the program GRAD ASSISTANT (Fletcher, 1965) that could calculate the Ricci tensor from a given not too complicated metric.

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The purpose of this paper is to bring to the attention of potential users the existence of algebraic computing systems, and to illustrate their use by reviewing a number of problems for which such ...

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Abstract. The purpose of this paper is to bring to the attention of potential users the existence of algebraic computing systems, and to illustrate their use by reviewing a number of problems for which such a system has been successfully used in General Relativity.

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potential users the existence of algebraic computing systems, and to illustrate their use by reviewing a number of problems for which such a system has been successfully used in General Relativity. In addition, some remarks are included which may be of help in the future design of these systems.

Algebraic computing in general relativity - rd.springer.com

algebraic computing in general relativity 273 Riemann tensors, etc. for a number of metrics, some of this was in the nature of a check of existing calculations.

The use of algebraic computing in general relativity

ferent types of computing languages are presented in section (1-3), and attention is concentrated on the language LISP. The available algebraic computing packages are reviewed in (1-4) with closer examination of the packages SHEEP and STENSOR which are of exceptional relevance to general relativistic applications.

ALGEBRAIC COMPUTING IN GENERAL RELATIVITY AND SUPERGRAVITY

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Basic Algebra Advanced Algebra ... 17. Two Tools for Computing Galois Groups 532 18. Problems 539. x Contents ... general and of giving examples of computational techniques right from the start. They appreciated the overall comprehensive nature of the book, associating this

Basic Algebra - Stony Brook University

7.2. Algebraic interlude: Lying Over and Nakayama 200 7.3. A gazillion finiteness conditions on morphisms 205 7.4. Images of morphisms: Chevalley's theorem and elimination theory 214 Chapter 8. Closed embeddings and related notions 221 8.1. Closed embeddings and closed subschemes 221 8.2. More projective geometry 226 8.3.

MATH 216: FOUNDATIONS OF ALGEBRAIC GEOMETRY

The curvature tensor of space-time can be described most concisely by giving the components of the Weyl and Ricci tensors relative to a complex null tetrad. The Newman-Penrose equations provide a simple and direct algorithm for calculating these components. This paper describes a computer program ...

Algebraic computing and the Newman-Penrose formalism in

Computing Roadmaps of General Semi-Algebraic Sets J.F. Canny 1 Computer Science Division University of California Berkeley, CA 94720 Abstract

Computing Roadmaps of General Semi-Algebraic Sets

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CO - University of California, Berkeley

Although computer algebra could be considered a subfield of scientific computing, they are generally considered as distinct fields because scientific computing is usually based on numerical computation with approximate floating point numbers, while symbolic computation emphasizes exact computation with expressions containing variables that have no given value and are manipulated as symbols.

Computer algebra - Wikipedia

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