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Pertti Lounesto

My research
focuses on
algebras
emerging from
problems in
geometry and
physics, called
Clifford
algebras. In
physics, the

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concept of
Clifford
algebra, as such
or in a
disguise, is a
necessity in the
description of
electron spin,
because spinors
cannot be
constructed by
tensorial
methods, in
terms of

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exterior powers
of the vector
space.

**A New
Formulation of
Maxwell's
Equations in
Clifford Algebra**

Formulas
involving
multivectors M
 $\wedge N := \sum$
 $_{\{r,s\}} \langle$

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`\langle M`

`\rangle_r`

`\langle N`

`\rangle_s`

`\rangle_{r+s} $`

Use in physics .

When the

electromagnetic

field is defined

as the

multivector sum

of an electric

field vector and

a magnetic field

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bivector, the
four Maxwell
equations can be
reduced to a
single equation.

Pertti Lounesto
- Aalto

The Clifford
algebra of a n-
dimensional
Euclidean vector
space provides a
general language

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comprising
vectors, complex
numbers,
quaternions,
Grassman
algebra, Pauli
and Dirac
matrices. In
this work, we
present an
introduction to
the main ideas
of Clifford
algebra, with

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the main goal to
develop a
package for
Clifford algebra
calculations for
the computer
algebra program
Mathematica.

**Multivectors And
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In**

The term k -blade

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was used in
Clifford Algebra
to Geometric
Calculus (1984).
Multivectors
play a central
role in the
mathematical
formulation of
physics known as
geometric
algebra.

According to
David Hestenes,

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[Non-scalar] k -vectors are sometimes called k -blades or, simply, blades to emphasize the fact that, in contrast to 0 -vectors (scalars), they have "directional properties".

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clifford:

Geometric

Algebra for

Python –

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to Geometric

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Unified Language

for Mathematics

and Physics

(Fundamental

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book is intended
for

mathematicians
and physicists
rather than
programmers, it
is very
theoretical. It
covers the
algebra and
calculus of
multivectors of
any dimension
and is not

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specific to 3D
Electrodynamics
modelling.

**Spin and
Clifford
algebras, an
introduction**

This module
implements
Geometric
Algebras (a.k.a.
Clifford
algebras).
Geometric

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Algebra (GA) is a universal algebra which subsumes complex algebra, quaternions, linear algebra and several other independent mathematical systems. Scalars, vectors, and

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higher-grade entities can be mixed freely and consistently in the form of mixed-grade multivectors.

**Hecke algebra
representations
within Clifford
geometric ...**

Clifford Algebra
to Geometric

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Calculus: A
Unified Language

for Mathematics
and Physics ...

It covers the
algebra and
calculus of
multivectors of
any dimension
and is not
specific to 3D
modelling. New
Foundations for
Classical

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(Fundamental
Theories of
Physics).

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Arithmetic -
Martin Baker**
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to Geometric
Calculus: A
Unified Language
for Mathematics

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(Fundamental

Theories of
Physics). This
book is intended
for
mathematicians
and physicists
rather than
programmers, it
is very
theoretical. It
covers the
algebra and

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calculus of
multivectors of

any dimension
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specific to 3D
modelling.

**Multivectors and
Clifford Algebra
in
Electrodynamics**

The smaller ones
are promoted in
more classical

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domains. This book is intended to demonstrate usefulness of Clifford algebras in classical electrodynamics. Written with a pedagogical aim, it begins with an introductory chapter devoted to multivectors

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and Clifford
algebra for the
three-
dimensional
space.

**Maths - Clifford
/ Geometric
Algebra - Martin
Baker**

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for computing
with Clifford
algebras in
MATLAB. This is
a toolbox
(software
library) for
computing with
matrices of
Clifford algebra
multivectors in
MATLAB. It is
designed to

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handle numerical
computations
with matrices as
far as these are
defined for
matrices of
multivectors.

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algebra of
multivectors -
ResearchGate**

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on Fri, Jun

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than an hour but
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and registration
of new users may
not be available
for up to 4
hours.

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**Multivectors and
Clifford Algebra**

•••

2. Clifford
geometric
algebra of
multivectors
There are many
possibilities of
introducing
Clifford
algebras, each
of them

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emphasizing a different point of view. In our case, it is of utmost importance to have the Clifford algebra built over a graded linear space. This grading is obtained from the space

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underlying a
Grassmann
algebra.

**Clifford Algebra
with Mathematica
- arXiv**

In linear
algebra the
fundamental
elements are mat
ri-ces/vectors.
In a similar
way, in GA the

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basic elements are the so-called multivectors (Clifford numbers). The structure of a multivector can be seen as a generalization of complex numbers and quaternions for higher

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dimensions. For instance, a complex number $+j$ has a scalar part combined with an

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Multivectors and
Clifford Algebra
in Electrodynamics.
.. [Bernard
Jancewicz] --
Clifford
algebras are
assuming now an
increasing role
in theoretical
physics. Some of
them
predominantly
larger ones are

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used in
elementary
particle theory,
especially for a
unification of
the ...

**Multivector -
Wikipedia**

The Clifford
algebra
corresponding to
B build over the
 \mathbb{Z}_2 -graded

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space (V) is called Clifford algebra of multivectors [8]. We proofed the theorem, ...

**Maths - Clifford
Algebra - 3D
Arithmetic -
Martin Baker**

We will give to multivectors an algebraic

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structure by
extending the
external product
to them. 1.1.4

The exterior
algebra of
multivectors The
bivectors form
the vector space
 $\Lambda^2(M)$, of
dimension $d(d-1)$

2. A general
bivector cannot
necessarily be

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decomposed as a
wedge product.

When this is
possible, the
bivector is
called simple.

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...

Abstract: The
following

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sections are
included: The
Magnetic Field
is a Bivector
Field. Integral
Maxwell
Equations.
Differential
Maxwell
Equations.
Boundary
Conditions at an
Interface

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Talk:Clifford

algebra | Math

Wiki | Fandom

Clifford Algebra
with Mathematica

... In this
paper, arbitrary
multivectors
will be de-noted
by non bold
upper case
characters
without or-
namentation such

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as $A \cdot p$ -vectors
will be denoted
by $A \cdot p$, with the
exception of
vectors
(1-vectors),
that will

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algebra with
mathematica |
Semantic Scholar**
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2017, Pirooz
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