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### Dialgebras And Related Operads

Dialgebras and Related Operads. Authors (view affiliations) Jean-Louis Loday; ... Dialgebras. Jean-Louis Loday. Pages 7-66. Dialgebra (co)homology with coefficients. ... Keywords. Hopf algebras Koszul duality algebra dialgebras homology operads planar trees . Authors and affiliations. Jean-Louis Loday. 1; Frédéric Chapoton. 2; Alessandra ...

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## **Dialgebras and Related Operads | J.-L. Loday | Springer**

Dialgebras and Related Operads. Dialgebras and Related Operads pp 7-66 | Cite as. Dialgebras. Authors; Authors and affiliations; Jean-Louis Loday; Chapter. First Online: 28 March 2002. 141 Citations; 453 Downloads; Part of the Lecture Notes in Mathematics book series (LNM, volume 1763) Abstract ...

## **Dialgebras | SpringerLink**

This notion is studied from a) the homological point of view: construction of the (co)homology theory with trivial coefficients and general coefficients, b) the operadic point of view: determination of the dual operad, that is the dendriform dialgebras which are strongly related with the planar binary trees, c) the algebraic point of view: Hopf structure and Milnor-Moore type theorem.

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The principal result about this homology theory is its vanishing on free associative dialgebras. The Koszul dual (in the sense of Ginzburg and Kapranov) of the operad of associative dialgebras is the

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operad of "dendriform algebras". The dendriform algebras are characterized by two operations satisfying three linear conditions.

### **[math/0102053] Dialgebras - arXiv**

THE POLYDENDRIFORM OPERAD AND RELATED OPERADS SAMUELE GIRAUDD Abstract. Dendriform algebras form a category of algebras recently introduced by Loday. A dendriform algebra is a vector space endowed with two nonassociative binary operations satisfying some relations. Any dendriform algebra is an algebra over the dendriform op-

### **PLURIISSOCIATIVE ALGEBRAS II: THE POLYDENDRIFORM OPERAD ...**

Algebraic Operads: An Algorithmic Companion presents a systematic treatment of Gröbner bases in several contexts. The book builds up to the theory of Gröbner bases for operads due to the second author and Khoroshkin as well as various applications of the corresponding diamond lemmas in algebra. The authors present a variety of topics including: noncommutative Gröbner bases and their ...

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### **Dialgebras And Related Operads**

became clear that dendriform dialgebras are an interesting subject on its own. This can be seen on one hand by its quite extensive study by several authors in areas related to operads [25], homology [10, 11], combinatorics [2, 3, 9, 28], arithmetic [24], quantum field theory [9] and especially Hopf

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algebras [2, 5, 15, 30, 36]. On the other hand it has

## **COHERENT UNIT ACTIONS ON REGULAR OPERADS AND HOPF ALGEBRAS**

The operads  $\text{Dendr } \gamma$  are the underlying operads of the category of  $\gamma$ -polydendriform algebras, that are algebras with  $2\gamma$  operations  $\leftarrow a, \rightarrow a, a \in [\gamma]$ , satisfying some relations. Free objects in these categories involve binary trees where all edges connecting two internal nodes are labeled on  $[\gamma]$  and the computation of a product of two binary trees admits an inductive description.

## **Pluriassociative algebras II: The polydendriform operad ...**

We show that totally compatible dialgebras are closely related to bimodule algebras and semi-homomorphisms. More significantly, Rota-Baxter operators on totally compatible dialgebras provide a uniform framework to generalize known results that Rota-Baxter related operators give tridendriform algebras.

## **Operads and Rewriting - Claude Bernard University Lyon 1**

In Dialgebras and related operads, volume 1763 of Lecture Notes in Math., pages 7-66. Springer, Berlin, 2001. 2, 3, 4, 6, 7, 8, 24, 33, 36 Special issue in celebration of Claudio Procesi's 60th ...

## **Pluriassociative algebras II: The polydendriform operad ...**

Dendriform dialgebras. A dendriform dialgebra  $E$  over  $K$  [9, Section 5] is a  $K$ -vector space equipped with two binary operations,  $<: E \otimes E \rightarrow E, >: E \otimes E \rightarrow E$ , such that (4.1.1a)  $(x < y) < z = x < (y < z + y > z)$ , (4.1.1b)  $(x > y) < z = x > (y < z)$ , (4.1.1c)  $(x < y + x > y) > z = x > (y > z)$  for all  $x, y, z \in E$ . Dendriform dialgebras are the operadic duals of dialgebras.

## **Gerstenhaber structure and Deligne's conjecture for Loday ...**

J.-L. Loday, Dialgebras, in "Dialgebras and related operads", Lecture Notes in Math., 1763 (2002),

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7-66. 1 Algebraic Operads, Grundlehren der mathematischen Wissenschaften Jan 2012

## **Coherent unit actions on braided operads and Hopf algebras ...**

Arising from Algebraic Operads Murray R. Bremner<sup>1</sup> Department of Mathematics and Statistics University of Saskatchewan, Saskatoon, Canada CIMPA Research School, 7-19 August 2017 ... J.-L. Loday: Dialgebras. Dialgebras and Related Operads, 7{66, Lecture Notes in Math., 1763. Springer, 2001.

## **Associative and Nonassociative Structures Arising from ...**

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In his paper about arithmetree, Loday introduced planar binary trees in homology theory related to dialgebras and constructed addition and multiplication operations on the set of planar binary rooted trees giving rise to a new kind of arithmetic theory. This theory has also been extended to all planar rooted trees.

## **Prismatic Sets Associated with Planar Rooted Trees**

Algebraic Operads: An Algorithmic Companion presents a systematic treatment of Gröbner bases in several contexts. The book builds up to the theory of Gröbner bases for operads due to the second author and Khoroshkin as well as various applications of the corresponding diamond lemmas in algebra.

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