



# Iterated Integrals And Homotopy Periods

**Daniela Niemeyer**

## **Iterated Integrals And Homotopy Periods:**

*Iterated Integrals and Homotopy Periods* Richard Martin Hain, 1984

**Collected Papers of K.T. Chen** Kuo-Tsai

Chen, Philippe Tondeur, 2001-06-21 Kuo Tsai Chen 1923 1987 is best known to the mathematics community for his work on iterated integrals and power series connections in conjunction with his research on the cohomology of loop spaces His work is intimately related to the theory of minimal models as developed by Dennis Sullivan whose own work was in part inspired by the research of Chen An outstanding and original mathematician Chen s work falls naturally into three periods his early work on group theory and links in the three sphere his subsequent work on formal differential equations which gradually developed into his most powerful and important work and his work on iterated integrals and homotopy theory which occupied him for the last twenty years of his life The goal of Chen s iterated integrals program which is a de Rham theory for path spaces was to study the interaction of topology and analysis through path integration The present volume is a comprehensive collection of Chen s mathematical publications preceded by an article The Life and Work of Kuo Tsai Chen placing his work and research interests into their proper context and demonstrating the power and scope of his influence

*Algebraic Models in Geometry* Yves Félix, John Oprea, Daniel Tanré, 2008-03-13 Rational homotopy is a very powerful tool for differential topology and geometry This text aims to provide graduates and researchers with the tools necessary for the use of rational homotopy in geometry Algebraic Models in Geometry has been written for topologists who are drawn to geometrical problems amenable to topological methods and also for geometers who are faced with problems requiring topological approaches and thus need a simple and concrete introduction to rational homotopy This is essentially a book of applications Geodesics curvature embeddings of manifolds blow ups complex and Kähler manifolds symplectic geometry torus actions configurations and arrangements are all covered The chapters related to these subjects act as an introduction to the topic a survey and a guide to the literature But no matter what the particular subject is the central theme of the book persists namely there is a beautiful connection between geometry and rational homotopy which both serves to solve geometric problems and spur the development of topological methods

**Contemporary Trends in Algebraic Geometry and Algebraic Topology** Shiing-Shen Chern, 2002 The Wei Liang Chow and Kuo Tsai Chen Memorial Conference was proposed and held by Prof S S Chern in Nankai Institute of Mathematics It was devoted to memorializing those two outstanding and original Chinese mathematicians who had made significant contributions to algebraic geometry and algebraic topology respectively It also provided a forum for leading mathematicians to expound and discuss their views on new ideas in these fields as well as trends in 21st Century mathematics About 100 mathematicians participated in the conference including Sir Michael Atiyah Jacob Palis Phillip Griffiths David Eisenbud Philippe Tondeur Yujiro Kawamata Tian Gang etc This invaluable volume contains the selected papers presented at the conference The topics include canonical maps of Gorenstein 3 folds fundamental groups of algebraic curves Chen s iterated integrals algebraic fiber spaces and others

**Bimonoids for**

Hyperplane Arrangements Marcelo Aguiar, Swapneel Mahajan, 2020-03-19 The goal of this monograph is to develop Hopf theory in a new setting which features centrally a real hyperplane arrangement. The new theory is parallel to the classical theory of connected Hopf algebras and relates to it when specialized to the braid arrangement. Joyal's theory of combinatorial species ideas from Tits' theory of buildings and Rota's work on incidence algebras inspire and find a common expression in this theory. The authors introduce notions of monoid, comonoid, bimonoid and Lie monoid relative to a fixed hyperplane arrangement. They also construct universal bimonoids by using generalizations of the classical notions of shuffle and quasishuffle and establish the Borel-Hopf, Poincaré-Birkhoff-Witt and Cartier-Milnor-Moore theorems in this setting. This monograph opens a vast new area of research. It will be of interest to students and researchers working in the areas of hyperplane arrangements, semigroup theory, Hopf algebras, algebraic Lie theory, operads and category theory.

*Handbook of Algebra*, 2003-10-15 **Handbook of Algebra** **Proceedings of A. Razmadze Mathematical Institute**, 1995 **St.**

**Petersburg Mathematical Journal**, 2005 **Bulletin (new Series) of the American Mathematical Society**, 1986

*Bulletin of the American Mathematical Society*, 1986 **Catalogue, Books and Journals in Advanced Mathematics**

American Mathematical Society, 1985 *Notices of the American Mathematical Society* American Mathematical Society, 1989

**Proceedings**, 1999 **First International Tainan-Moscow Algebra Workshop** Yuen Fong, U.

Knauer, 1996 The series is aimed specifically at publishing peer reviewed reviews and contributions presented at workshops and conferences. Each volume is associated with a particular conference, symposium or workshop. These events cover various topics within pure and applied mathematics and provide up to date coverage of new developments, methods and applications.

**Philosophical Transactions**, 2001 **Mathematical Reviews**, 2005 *Illinois Journal of Mathematics*, 1991

**Quantum Groups** Steven Shnider, Shlomo Sternberg, 1993 An introduction to the field of quantum groups including topology and statistical mechanics based on lectures given at the Sackler Institute for Advanced Studies at Tel Aviv University. Detailed proofs of the main results are presented and the bibliography contains more than 1260 references.

**Russian Mathematical Surveys**, 1990 **Manifolds-Tokyo, 1973** Akio Hattori, 1975

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