

# Iterated Integrals

$$\int_a^b \int_{g_1(x)}^{g_2(x)} f(x, y) dy dx = \int_c^d \int_{h_1(y)}^{h_2(y)} f(x, y) dx dy$$



# Iterated Integrals And Homotopy Periods

**Kuo-Tsai Chen, Philippe Tondeur**



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

**Iterated Integrals and Homotopy Periods** Richard Martin Hain, 1984 Of the various minimal algebraic models of a simply connected space that have been constructed in the last decade possibly the least understood and the one most suitable for application in geometry is K T Chen's non commutative algebra model In this paper we give a complete exposition of Chen's methods and extend these in two directions we establish a rational version of Chen's theory for simply connected semisimplicial complexes and we show that the set of primitive elements of Chen's model is a Lie algebra model of the space whose generators correspond to cells in the space that represent non trivial rational homology classes **Iterated**

**Integrals And Cycles On Algebraic Manifolds** Bruno Harris, 2004-03-15 This subject has been of great interest both to topologists and to number theorists The first part of this book describes some of the work of Kuo Tsai Chen on iterated integrals and the fundamental group of a manifold The author attempts to make his exposition accessible to beginning graduate students He then proceeds to apply Chen's constructions to algebraic geometry showing how this leads to some results on algebraic cycles and the Abel Jacobi homomorphism Finally he presents a more general point of view relating Chen's integrals to a generalization of the concept of linking numbers and ends up with a new invariant of homology classes in a projective algebraic manifold The book is based on a course given by the author at the Nankai Institute of Mathematics in the fall of 2001 **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 **Periods in Quantum Field Theory and Arithmetic** José Ignacio

Burgos Gil, Kurusch Ebrahimi-Fard, Herbert Gangl, 2020-03-14 This book is the outcome of research initiatives formed during the special Research Trimester on Multiple Zeta Values Multiple Polylogarithms and Quantum Field Theory at the ICMAT Instituto de Ciencias Matemáticas Madrid in 2014 The activity was aimed at understanding and deepening recent developments where Feynman and string amplitudes on the one hand and periods and multiple zeta values on the other have been at the heart of lively and fruitful interactions between theoretical physics and number theory over the past few decades

In this book the reader will find research papers as well as survey articles including open problems on the interface between number theory quantum field theory and string theory written by leading experts in the respective fields Topics include among others elliptic periods viewed from both a mathematical and a physical standpoint further relations between periods and high energy physics including cluster algebras and renormalisation theory multiple Eisenstein series and  $q$  analogues of multiple zeta values also in connection with renormalisation double shuffle and duality relations alternative presentations of multiple zeta values using Ecalle's theory of moulds and arborification a distribution formula for generalised complex and  $l$ -adic polylogarithms Galois action on knots Given its scope the book offers a valuable resource for researchers and graduate students interested in topics related to both quantum field theory in particular scattering amplitudes and number theory

*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

Feynman Amplitudes, Periods and Motives Luis Álvarez-Cónsul, José Ignacio Burgos-Gil, Kurusch Ebrahimi-Fard, 2015-09-24 This volume contains the proceedings of the International Research Workshop on Periods and Motives A Modern Perspective on Renormalization held from July 2-6 2012 at the Instituto de Ciencias Matemáticas Madrid Spain Feynman amplitudes are integrals attached to Feynman diagrams by means of Feynman rules They form a central part of perturbative quantum field theory where they appear as coefficients of power series expansions of

probability amplitudes for physical processes The efficient computation of Feynman amplitudes is pivotal for theoretical predictions in particle physics Periods are numbers computed as integrals of algebraic differential forms over topological cycles on algebraic varieties The term originated from the period of a periodic elliptic function which can be computed as an elliptic integral Motives emerged from Grothendieck's universal cohomology theory where they describe an intermediate step between algebraic varieties and their linear invariants cohomology The theory of motives provides a conceptual framework for the study of periods In recent work a beautiful relation between Feynman amplitudes motives and periods has emerged The articles provide an exciting panoramic view on recent developments in this fascinating and fruitful interaction between pure mathematics and modern theoretical physics

### **Algebraic Models in Geometry** Yves Félix, John

Oprea, Daniel Tanré, 2008 A text aimed at both geometers needing the tools of rational homotopy theory to understand and discover new results concerning various geometric subjects and topologists who require greater breadth of knowledge about geometric applications of the algebra of homotopy theory

### **Maurer-Cartan Methods in Deformation Theory** Vladimir

Dotsenko, Sergey Shadrin, Bruno Vallette, 2023-09-07 Covering an exceptional range of topics this text provides a unique overview of the Maurer Cartan methods in algebra geometry topology and mathematical physics It offers a new conceptual treatment of the twisting procedure guiding the reader through various versions with the help of plentiful motivating examples for graduate students as well as researchers Topics covered include a novel approach to the twisting procedure for operads leading to Kontsevich graph homology and a description of the twisting procedure for homotopy associative algebras or homotopy Lie algebras using the biggest deformation gauge group ever considered The book concludes with concise surveys of recent applications in areas including higher category theory and deformation theory

### **A Topological**

**Chern-Weil Theory** Anthony Valiant Phillips, David A. Stone, 1993 We examine the general problem of computing characteristic invariants of principal bundles whose structural group  $G$  is a topological group Under the hypothesis that  $G$  has real cohomology finitely generated as an  $\mathbb{R}$  module we are able to give a completely topological local method for computing representative cocycles for real characteristic classes our method applies for example to the homologically 10 dimensional non Lie group of Hilbert

### **Hopf Monoids and Generalized**

**Permutahedra** Marcelo Aguiar, Federico Ardila, 2023-09-27 View the abstract

### **Handbook of Algebra**, 2003-10-15

**Handbook of Algebra** **Stochastic Analysis** Michael Craig Cranston, Mark A. Pinsky, 1995 This book deals with current developments in stochastic analysis and its interfaces with partial differential equations dynamical systems mathematical physics differential geometry and infinite dimensional analysis The origins of stochastic analysis can be found in Norbert Wiener's construction of Brownian motion and Kiyosi Itô's subsequent development of stochastic integration and the closely related theory of stochastic ordinary differential equations The papers in this volume indicate the great strides that have been made in recent years exhibiting the tremendous power and diversity of stochastic analysis while giving a clear

indication of the unsolved problems and possible future directions for development The collection represents the proceedings of the AMS Summer Institute on Stochastic Analysis held in July 1993 at Cornell University Many of the papers are largely expository in character while containing new results      *Comparison of Relatively Unipotent Log de Rham Fundamental Groups* Bruno Chiarellotto,Valentina Di Proietto,Atsushi Shiho,2023-09-15 View the abstract      [Fields Medallists' Lectures, 2nd Edition](#) Michael Atiyah,Daniel Iagolnitzer,2003-11-03 Although the Fields Medal does not have the same public recognition as the Nobel Prizes they share a similar intellectual standing It is restricted to one field that of mathematics and an age limit of 40 has become an accepted tradition Mathematics has in the main been interpreted as pure mathematics and this is not so unreasonable since major contributions in some applied areas can be and have been recognized with Nobel Prizes A list of Fields Medallists and their contributions provides a bird s eye view of mathematics over the past 60 years It highlights the areas in which at various times greatest progress has been made This volume does not pretend to be comprehensive nor is it a historical document On the other hand it presents contributions from Fields Medallists and so provides a highly interesting and varied picture The second edition of Fields Medallists Lectures features additional contributions from the following Medallists Kunihiko Kodaira 1954 Richard E Borcherds 1998 William T Gowers 1998 Maxim Kontsevich 1998 Curtis T McMullen 1998 and Vladimir Voevodsky 2002      *Geometric and Topological Methods for Quantum Field Theory* Alexander Cardona,Iván Contreras,Andrés F. Reyes-Lega,2013-05-09 A unique presentation of modern geometric methods in quantum field theory for researchers and graduate students in mathematics and physics      **St. Petersburg Mathematical Journal** ,2005      **Fields Medallists' Lectures** Michael Atiyah,Daniel Iagolnitzer,1997-10-13 Although the Fields Medal does not have the same public recognition as the Nobel Prizes they share a similar intellectual standing It is restricted to one field that of mathematics and an age limit of 40 has become an accepted tradition Mathematics has in the main been interpreted as pure mathematics and this is not so unreasonable since major contributions in some applied areas can be and have been recognized with Nobel Prizes The restriction to 40 years is of marginal significance since most mathematicians have made their mark long before this age A list of Fields Medallists and their contributions provides a bird s eye view of mathematics over the past 60 years It highlights the areas in which at various times greatest progress has been made This volume does not pretend to be comprehensive nor is it a historical document On the other hand it presents contributions from 22 Fields Medallists and so provides a highly interesting and varied picture The contributions themselves represent the choice of the individual Medallists In some cases the articles relate directly to the work for which the Fields Medals were awarded In other cases new articles have been produced which relate to more current interests of the Medallists This indicates that while Fields Medallists must be under 40 at the time of the award their mathematical development goes well past this age In fact the age limit of 40 was chosen so that young mathematicians would be encouraged in their future work The Fields Medallists Lectures is now available on CD ROM Sections can be accessed at

the touch of a button and similar topics grouped together using advanced keyword searches Geometry, Algebra, Number Theory, and Their Information Technology Applications Amir Akbary, Sanoli Gun, 2018-09-18 This volume contains proceedings of two conferences held in Toronto Canada and Kozhikode India in 2016 in honor of the 60th birthday of Professor Kumar Murty The meetings were focused on several aspects of number theory The theory of automorphic forms and their associated L functions Arithmetic geometry with special emphasis on algebraic cycles Shimura varieties and explicit methods in the theory of abelian varieties The emerging applications of number theory in information technology Kumar Murty has been a substantial influence in these topics and the two conferences were aimed at honoring his many contributions to number theory arithmetic geometry and information technology **System Control and Rough Paths**

Terry Lyons, Zhongmin Qian, 2002-12-19 This book describes a completely novel mathematical development which has already influenced probability theory and has potential for application to engineering and to areas of pure mathematics Intended for probabilists mathematicians and engineers with a mathematical background from graduate level onwards this book develops the evolution of complex non linear systems subject to rough or rapidly fluctuating stimuli Attention is focussed on an analysis of the relationship between the stimulus or control and the short to medium term evolution of a receiver the response of the system A rapidly fluctuation stimuli can be likened to a huge dataset and a basic question is how best to reduce this dataset so as to capture the critical information and little else An essential component problem involves identifying the point at which two different stimuli produce essentially the same response from the class of receivers When do two stereo sounds sound the same This is an essentially non linear problem that requires novel mathematics At one level this book focuses on systems responding to such rough external stimuli and demonstrates that the natural reduction approximates the stimuli as a sequence of nilpotent elements The core result of the book is a continuity theorem that proves that the response of the system depends continuously on these nilpotent elements A key mathematical aspect of the book is the notion of a rough path based on combining the notion of p variation of Wiener with the iterated integral expansions of paths introduced by K T Chen The continuity theorem for these rough paths gives a new way to construct solutions to stochastic differential equations providing a fresh approach to the It theory but also allowing new kinds of noisy perturbations such as Fractional Brownian Motions that cannot be discussed in the standard It approach It also provides some interesting concrete examples of continuous free groups

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