

## P Adic Differential Equations

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### P Adic Differential Equations

Over the last 50 years the theory of p-adic differential equations has grown into an active area of research in its own right, and has important applications to number theory and to computer science. This book, the first comprehensive and unified introduction to the subject, improves and simplifies existing results as well as including original material.

### p-adic Differential Equations (Cambridge Studies in ...

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### p-adic Differential Equations by Kiran S. Kedlaya

In mathematics, p-adic analysis is a branch of number theory that deals with the mathematical analysis of functions of p-adic numbers. The theory of complex-valued numerical functions on the p-adic numbers is part of the theory of locally compact groups.

### p-adic analysis - Wikipedia

Lectures on p-adic Differential Equations. Usually dispatched within 3 to 5 business days. The present work treats p-adic properties of solutions of the hypergeometric differential equation 




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, by constructing the associated Frobenius structure.

### Lectures on p-adic Differential Equations | Bernard Dwork ...

A p-adic di erential equation is a di erential equation, in which the functions involved are p-adic valued functions of a p-adic variable. For example, the equation y0(t) = y(t) admits as a solution y(t) = y(0)exp(t). The power series de ning exp(t) only converges on the disk fz 2C; p; jzj.

### p-adic differential equations - Serveur de Pages ...

SOME p-ADIC DIFFERENTIAL EQUATIONS IN ARITHMETIC GEOMETRY KIRAN KEDLAYA Since Dwork's pioneering work in the sixties, it has been known at some level that there are deep connections between • complex (algebraic and analytic) differential equations, • p-adic (algebraic and analytic) differential equations, and

### SOME p-ADIC DIFFERENTIAL EQUATIONS IN ARITHMETIC

applications of p-adic differential equations emerge: for example, Berger relates a certain p-adic represen-tation of the absolute Galois group of Qp to a p-adic differential equation over the Robba ring; then, he proves Fontaine's p-adic monodromy conjecture by using the p-adic local monodromy theorem ((Ber02).

### of solutions of p-adic differential equations

Some aspects of the p-adic series of the form Fk(x) = X n≥0 n!Pk(n)xn, (1.1) where Pk(n) = nk + Ck−1nk−1 + ⋯ + C0 is a polynomial in n with Ci ∈ Z, have been considered in a few of articles (see [1], [2] and references therein). It was noted in [1] that F0(x) = X n≥0 n!xn (1.2) is an analytic solution of the following p-adic differential equation:

### Some p-adic differential equations - arXiv

p-adic differential equations. AndreaPulita Abstract We obtain an algorithm computing explicitly the values of the non solvable spectral radii of convergence of the solutions of a differential module over a point of type 2, 3 or 4 of the Berkovich affine line. Introduction

### p-adic differential equations.

The 3-adic integers, with selected corresponding characters on their Pontryagin dual group. In mathematics, the p-adic number system for any prime number p extends the ordinary arithmetic of the rational numbers in a different way from the extension of the rational number system to the real and complex number systems.

### p-adic number - Wikipedia

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### p-adic Differential Equations (Cambridge Studies in ...

P-ADIC NUMBERS AND SOLVING P-ADIC EQUATIONS AXEL G. R. TURNQUIST Abstract. This paper provides a review of C. C. MacDu ee’s article titled The p-adic Numbers of Hensel from 1938 and H. S. Thurston’s article titled The Solution of p-adic Equationsfrom 1943 published in the American Mathe-matical Monthly.

### P-ADIC NUMBERS AND SOLVING P-ADIC EQUATIONS

ON ORDINARY LINEAR p-ADIC DIFFERENTIAL EQUATIONS BY B. DWORAK AND P. ROBBA Abstract. We study the solutions of ordinary linear differential equations whose coefficients are analytic elements. As one application we show nonexistence of index for certain linear differential operators with rational function coefficients. Introduction.

### ON ORDINARY LINEAR p-ADIC DIFFERENTIAL EQUATIONS

Over the last 50 years the theory of p-adic differential equations has grown into an active area of research in its own right, and has important applications to number theory and to computer science. This book, the first comprehensive and unified introduction to the subject, improves and simplifies existing results as well as including original material.

### p -adic Differential Equations by Kiran S. Kedlaya ...

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### p-adic Differential Equations - Kiran S. Kedlaya - Google ...

dimensional p-adic differential equations in the context of the “semistable reduction problem” for overconvergent F-isocrystals) or in practice (in the explicit computation of solutions of p-adic differential equations, e.g., for finding zeta functions of explicit varieties). 2. Structure of the book

### p-adic differential equations (version of 7 Jan 08)

Get this from a library! P-adic differential equations. [Kiran Sridhara Kedlaya] -- “Over the last 50 years the theory of p-adic differential equations has grown into an active area of research in its own right, and has important applications to number theory and to computer ...

### P-adic differential equations (Book, 2010) [WorldCat.org]

Some p-adic Differential Equations. Article ... Some of these differential equations can be related to p-adic dynamics and p-adic information theory. Discover the world's research.

### (PDF) Some p-adic Differential Equations - ResearchGate

Abstract. We investigate various properties of p-adic differential equations which have as a solution an analytic function of the form Fk(x) = ∑ n!Pk(n)x n, n≥0 where Pk(n) = nk +Ck−1nk−1+ ⋯ +C0 is a polynomial in n with Ci ∈ Z (in a more general case Ci ∈ Q or Ci ∈ Cp) , and the region of convergence is | x |p< p 1 p−1.

### CiteSeerX — Some p-adic differential equations

The following represents an introduction to an article summarizing my recent understanding of p-adic length scale hypothesis and dark matter hierarchy. These considerations lead to more detailed proposals. In particular, a proposal for explicit form of dark scale is made. p-Adic length scale hypothesis In p-adic mass calculations real mass...