1. Record Nr. UNINA9910451044503321 Proceedings of the Conference on Differential Equations and the Stokes Titolo Phenomenon [[electronic resource]]: Groningen, The Netherlands, 28-30 May 2001 / / edited by B.L.J. Braaksma ... [et al.] River Edge, N.J., : World Scientific, c2002 Pubbl/distr/stampa 981-277-654-0 **ISBN** Descrizione fisica 1 online resource (343 p.) Altri autori (Persone) BraaksmaB. L. J <1934-> (Boele Lieuwe Jan) 530.15/535 Disciplina Soggetti Differential equations Differential equations, Linear - Asymptotic theory Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references. Nota di contenuto Contents : Preface ; Addresses of contributors ; Toward p-adic Stokes phenomena? Singularities of p-adic differential ; 1. pequations adic differential equations. Why? ; 2. Singularities of p-adic differential equations : 3. Slope filtrations 4. Relations between examples 3.2 and 3.4 5. A 'p-adic real blow-up' and the question of Stokes phenomena : Bibliography : Moduli spaces for linear differential equations ; 1. Introduction ; 2. Definition of the moduli space ; 3. The moduli space is of finite type over C 4. Closed subspaces of moduli spaces 5. The Singer condition ; Bibliography Factorization of differential operators and application to differential Galois theory : 2. Solving differential equations in a ; 1. Introduction valued field ; 3. Differential Hensel lemma 4. Factorization of differential operators 5. Application ; Bibliography : Movable singularities of solutions of nonlinear differential and difference

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## Sommario/riassunto

This volume is the record of a workshop on differential equations and the Stokes phenomenon, held in May 2001 at the University of Groningen. It contains expanded versions of most of the lectures given at the workshop. To a large extent, both the workshop and the book may be regarded as a seguel to a conference held in Groningen in 1995 which resulted in the book <i>The Stokes Phenomenon and Hilbert's 16th Problem</i> (B L J Braaksma, G K Immink and M van der Put, editors), also published by World Scientific (1996). Both books offer a snapshot concerning the state of the art in the areas of