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| 1. Record Nr. | UNINA9910779885203321 |
| Autore | Ralph Claire C. |
| Titolo | Arithmetic differential operators over the p-adic integers / / Claire C. Ralph, Santiago R. Simanca [[electronic resource]] |
| Pubbl/distr/stampa | Cambridge : , : Cambridge University Press, , 2012 |
| ISBN | 1-139-88774-2 1-139-08466-6 1-107-08994-8 1-107-10182-4 1-107-09621-9 1-107-10420-3 1-107-09312-0 |
| Descrizione fisica | 1 online resource (vi, 139 pages) : digital, PDF file(s) |
| Collana | London Mathematical Society lecture note series ; ; 396 |
| Classificazione | MAT 123f SI 320 SK 540 |
| Disciplina | 515.7242 |
| Soggetti | Differential operators Arithmetic functions p-adic numbers |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Title from publisher's bibliographic system (viewed on 05 Oct 2015). |
| Nota di bibliografia | Includes bibliographical references (p. 135-137) and index. |
| Nota di contenuto | The p-adic numbers Q_p -- Some classical analysis on Q_p -- The Artin-Hasse exponential function -- The completion of the algebraic closure of Q_p -- Zeta functions -- Analytic functions on Z_p -- Arithmetic differential operators on Z_p -- A general view of arithmetic differential operators -- Analyticity of arithmetic differential operators -- Characteristic functions of discs in Z_p : p-adic coordinates -- Characteristic functions of discs in Z_p : harmonic coordinates -- Some differences between (Se(B-operators over Z_p and Zur p. |
| Sommario/riassunto | The study of arithmetic differential operators is a novel and promising area of mathematics. This complete introduction to the subject starts with the basics: a discussion of p-adic numbers and some of the classical differential analysis on the field of p-adic numbers leading to |

the definition of arithmetic differential operators on this field. Buium's theory of arithmetic jet spaces is then developed succinctly in order to define arithmetic operators in general. Features of the book include a comparison of the behaviour of these operators over the p-adic integers and their behaviour over the unramified completion, and a discussion of the relationship between characteristic functions of p-adic discs and arithmetic differential operators that disappears as soon as a single root of unity is adjoined to the p-adic integers. This book is essential reading for researchers and graduate students who want a first introduction to arithmetic differential operators over the p-adic integers.

2. Record Nr.

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Titolo

Agra University Journal of Research. Science

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Agra, : University, [1952-1982]

Descrizione fisica

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Classificazione

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Lingua di pubblicazione

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Note generali

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