

1. Record Nr.	UNINA9910779885203321
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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 $\mathbb{Q}_p$ -- Some classical analysis on $\mathbb{Q}_p$ -- The Artin-Hasse exponential function -- The completion of the algebraic closure of $\mathbb{Q}_p$ -- Zeta functions -- Analytic functions on $\mathbb{Z}_p$ -- Arithmetic differential operators on $\mathbb{Z}_p$ -- A general view of arithmetic differential operators -- Analyticity of arithmetic differential operators -- Characteristic functions of discs in $\mathbb{Z}_p$ : p-adic coordinates -- Characteristic functions of discs in $\mathbb{Z}_p$ : harmonic coordinates -- Some differences between $(\text{Se}(\mathbb{B})\text{-operators over } \mathbb{Z}_p \text{ and } \mathbb{Z}_p \text{ p.})$
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.	UNIORUON00006959
Titolo	Agra University Journal of Research. Science
Pubbl/distr/stampa	Agra, : University, [1952-1982]
Descrizione fisica	31 v. ; 25 cm
Classificazione	IN PERIODICI NON ATTIVI
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Periodico
Note generali	Semestrale; quadrimestrale dal 1965.