

Colmez, Pierre

Functions of a p -adic variable. (Fonctions d'une variable p -adique.) (English. French summary)

[Zbl 1223.11144](#)

Berger, Laurent (ed.) et al., Représentations p -adiques de groupes p -adiques II: Représentations de $GL_2(\mathbb{Q}_p)$ et (φ, γ) -modules. Paris: Société Mathématique de France (ISBN 978-2-85629-281-5/pbk). Astérisque 330, 13-59 (2010).

Summary: This text is a compilation of basic results in functional analysis over \mathbb{Q}_p . The stress is mainly put on the space of C^r -functions and on its dual of distributions of order r , the point being that these spaces have come to play an important rôle in p -adic Langlands theory.

For the entire collection see [[Zbl 1192.11001](#)].

MSC:

- 11S80** Other analytic theory (analogues of beta and gamma functions, p -adic integration, etc.)
- 46S10** Functional analysis over fields other than \mathbb{R} or \mathbb{C} or the quaternions; non-Archimedean functional analysis
- 47S10** Operator theory over fields other than \mathbb{R} , \mathbb{C} or the quaternions; non-Archimedean operator theory

Cited in **4** Reviews
Cited in **18** Documents

Keywords:

p -adic functional analysis; Amice transform; p -adic integration

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