

Khrennikov, A. Yu.

Analysis on the p -adic superspace. II: Differential equations on p -adic superspace. (English)

Zbl 0770.46036

J. Math. Phys. 33, No. 5, 1643-1647 (1992).

From the author's summary: "The Cauchy problem for differential equations on the p -adic superspace is considered. The application of this mathematical theory to the model of the supersymmetric quantum mechanism on the p -adic Riemannian surface is proposed. The non-Archimedean superdiffusion is also considered."

[For part I see the review above].

Reviewer: D.Plachky (Münster)

MSC:

- 46S10** Functional analysis over fields other than \mathbb{R} or \mathbb{C} or the quaternions; non-Archimedean functional analysis Cited in **3** Documents
- 46F10** Operations with distributions and generalized functions
- 47E05** General theory of ordinary differential operators (should also be assigned at least one other classification number in Section 47-XX)

Keywords:

Cauchy problem for differential equations on the p -adic superspace; model of the supersymmetric quantum mechanism on the p -adic Riemannian surface; non-Archimedean superdiffusion

Full Text: [DOI](#)

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