

Multidimensional nonlinear pseudo-differential equation with p -adic spatial variables

A. V. Antoniouk

ABSTRACT

We develop a multi-dimensional generalization of the theory of the p -adic porous medium type equation [1]. We use substantially the class of operators studied in Chapter 2 of [2].

References

- [1] A. Khrennikov and A. N. Kochubei. p -Adic analogue of the porous medium equation. *J. Fourier Anal Appl.* 24 (2018), 1401–1424.
- [2] W. Zuniga-Galindo. Pseudo-Differential equations over Non-Archimedean Spaces. *Lect. Notes Math.* 2174 (2016).