

Mikusiński, Piotr**Tempered Boehmians and ultradistributions.** (English) Zbl 0821.46053
Proc. Am. Math. Soc. 123, No. 3, 813-817 (1995).

Summary: An extension of the Fourier transform which is a one-to-one continuous mapping from the space of tempered Boehmians onto the space of Schwartz distributions is introduced. This shows that the space of tempered Boehmians can be identified with the space \mathcal{Z}' of ultradistributions.

MSC:

- [46F12](#) Integral transforms in distribution spaces
- [44A40](#) Calculus of Mikusiński and other operational calculi
- [46F05](#) Topological linear spaces of test functions, distributions and ultradistributions
- [42B10](#) Fourier and Fourier-Stieltjes transforms and other transforms of Fourier type

Cited in **30** Documents**Keywords:**

Fourier transform; one-to-one continuous mapping from the space of tempered Boehmians onto the space of Schwartz distributions; ultradistributions

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