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A differential operator of infinite order with constant coefficients on a weighted space of entire functions. (English. Russian original) [Zbl 0624.46028](#)

Sov. Math., Dokl. 34, 24-26 (1987); translation from Dokl. Akad. Nauk SSSR 289, 33-35 (1986).

The commutative Banach algebra P generated by an operator of generalized differentiation on a Banach space B of entire functions with growth condition is discussed. Conditions for invertibility of members of P and an isomorphism of P with a convolution algebra are indicated.

Reviewer: [J.P.Holmes](#)

MSC:

- 46G05 Derivatives of functions in infinite-dimensional spaces
- 46J15 Banach algebras of differentiable or analytic functions, H^p -spaces
- 47B38 Linear operators on function spaces (general)

Keywords:

weighted space of entire functions; operator of generalized differentiation on a Banach space of entire functions with growth condition; commutative Banach algebra; convolution algebra