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A note on degenerate Bernoulli numbers and polynomials associated with p -adic invariant integral on Z_p

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Abstract

The degenerate Bernoulli polynomials were introduced by Carlitz and rediscovered later by Ustiniv under the name of Korobov polynomials of the second kind. In this paper, we derive a Witt-type formula for the degenerate Bernoulli polynomials which can be represented by the p -adic invariant integral on Z_p . In addition, we introduce the λ -Daehee polynomials and give some relations between the degenerate Bernoulli polynomials and the λ -Daehee polynomials.

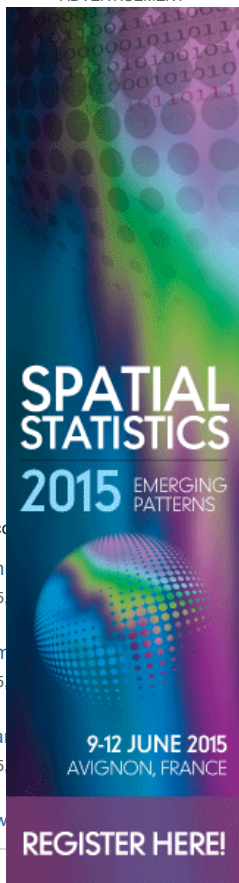
Keyword

Degenerate Bernoulli polynomial; p-Adic invariant integral; λ -Daehee polynomial

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