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**Generalization of the power sum arising in the theory of integrable hierarchies.** (English. Russian original) 

**Summary:** We consider a class of multiple sums involving odd powers of natural numbers. Such sums appear while considering the continuous limit of the integrable hierarchy of evolution equations associated with the Itoh-Narita-Bogoyavlenskii lattice. We discuss the problem of constructing polynomials that allow us to calculate the values of the corresponding sums.

**MSC:**
37K10 Completely integrable infinite-dimensional Hamiltonian and Lagrangian systems, integration methods, integrability tests, integrable hierarchies (KdV, KP, Toda, etc.)
11B68 Bernoulli and Euler numbers and polynomials

**Keywords:**
Narita-Bogoyavlenskii lattice; integrable hierarchy

**Full Text:** DOI

**References:**


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