

Varchenko, A. N.

The Euler beta-function, the Vandermonde determinant, the Legendre equation and critical values of linear functions on a configuration of hyperplanes. II. (Russian) [Zbl 0699.33004](#)
Izv. Akad. Nauk SSSR, Ser. Mat. 54, No. 1, 146-158 (1990).

This is a continuation of the part I by the same author [see *ibid.* 53, No.6, 1206-1235 (1989; [Zbl 0695.33004](#))] concerning the construction of generalized Beta function associated with a configuration of hyperplanes in an affine space. This part contains proofs of the main theorems and also a conjecture on a formula for the case of singular configuration.

Reviewer: [A.Kaneko](#)

MSC:

- [33C60](#) Hypergeometric integrals and functions defined by them (E , G , H and I functions)
- [33B15](#) Gamma, beta and polygamma functions

Cited in **2** Reviews
Cited in **5** Documents

Keywords:

[hypergeometric integral](#); [period matrix](#); [generalized Beta function](#)