About One Property of the Generalized Möbius-Listing's Bodies Ilia Tavkhelidze

E-mail: <u>ilia.tavkhelidze@rsu.ge</u>

Department of Mathematics, Iv. Javakhishvili State University, University str # 2, Tbilisi 0186 Georgia

In the present report, based on analytical representation, given a formula with which to calculate the number of different variants that appear after the cut generalized Möbius-Listinge's bodies with m-symmetric radial cross section , i.e. :

1. if number of symmetry m is odd (m=2k+1), then

$$V_{2k+1} = 8k + 1 + 3Nk + 2N + \sum_{i=1}^{N} 2\left[\frac{k}{\gamma_i}\right],$$

where N is a number of nontrivial divisors ($\gamma_1, ..., \gamma_N$) of the number m;

2. if m is even number, then

$$V_{2k} = 8k - 5 + 3Nk - N + \sum_{i=1}^{N} 2 \left\lfloor \frac{(k-1)}{\gamma_i} \right\rfloor.$$

Acknowledgement. The project partially has been fulfilled by a financial support of Shota Rustaveli National Science Foundation (Grant SRNSF/FR/358/5-109/14).

ლიტერატურა:

[1] Tavkhelidze I., Ricci, *Rendiconti Accademia Nazionale dell Scienze detta dei XL Memorie di Matematica a Applicazioni*, 2006, 124⁰ vol. XXX, fasc.1, pag. 191-212;

[2]. Tavkhelidze I. About structure and some geometric characteristic of the bulk links which appear after cutting of generalized mobius-listings bodies, *Proceedings of I. Vekua Institute of Applied Mathematics Vol.* 65, 2015