

ON TENSOR PRODUCT OF THE GIVEN TYPE ISOTROPIC REPRESENTATION

R.M. Surmanidze

Mathematics department, Ivane Javakhishvili Tbilisi State University
email: ruslan.surmanidze@tsu.ge

We consider tensor products of isotropic representations on itself given with the hige weight

$\circ \overset{1}{\circ} \cdots \overset{1}{\circ}$. We obtain formula for the expansion of tensor square into a direct sum of irreducible representations.

References

- [1]. O. V. Manturov, Homogeneous Riemannian spaces with an irreducible rotation group. (Russian) Trudy Sem. Vektor. Tenzor. Anal. 13 (1966), 68-145.
- [2]. J. A. Wolf, The goometry and structure of isotropy irreducible homogeneous spaces. Acta Math. 120 (1968), 59-148.
- [3] R. M. Surmanidze, Tensor invariants and homogeneous Riemann spaces. Journal of Mathematical Sciences, November, 2013, Vol. 195, Issue 2, 245-257.
- [4]. O. V. Manturov, Elementy Tenzornogo ischislenia. M. “Prosceschenie”1991.