

Algebras related to one class of homogeneous Riemann spaces

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We are considered one class of homogeneous Riemann spaces – Manturov-Wolf spaces [1], [2] – spaces $M = \mathfrak{g}/\mathfrak{h}$ with an irreducible isotropy group. On some spaces of this class we are calculated dimensions of the algebras of \mathfrak{g} -invariant tensor fields of valence 2, 3, 4. Our results is given in publication [3].

References

- [1]. O. V. Manturov, Homogeneous Riemannian spaces with an irreducible rotation group. (Russian) Trudy Sem. Vektor. Tensor. Anal. 13 (1966), 68-145.
- [2]. J. A. Wolf, The geometry 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, pp 245-257.