Buyalo, S. V.
Symmetries of double ratios and an equation for Möbius structures. (English. Russian original) Zbl 07452246

Summary: Orthogonal representations $\eta_n : S_n \curvearrowright \mathbb{R}^N$ of the symmetric groups $S_n$, $n \geq 4$, with $N = n!/8$, emerging from symmetries of double ratios are treated. For $n = 5$, the representation $\eta_5$ is decomposed into irreducible components and it is shown that a certain component yields a solution of the equations that describe the Möbius structures in the class of sub-Möbius structures. In this sense, a condition determining the Möbius structures is implicit already in symmetries of double ratios.

MSC:
51F99 Metric geometry
51B10 Möbius geometries

Keywords:
sub-Möbius structure; double ratio homomorphism; semimetric; scaling triples

Full Text: DOI

References:

This reference list is based on information provided by the publisher or from digital mathematics libraries. Its items are heuristically matched to zbMATH identifiers and may contain data conversion errors. It attempts to reflect the references listed in the original paper as accurately as possible without claiming the completeness or perfect precision of the matching.