cases	doc_1	doc_2	decision	id

doc_1

authors	• Nguyen, T. • Le, V.
title	Representation of real solvable Lie algebras having 2-dimensional derived ideal and geometry of coadjoint orbits of corresponding Lie groups
publication_date	2022-02-21 00:00:00
source	SupportedSources.CROSSREF
journal	
volume	
doi	10.1142/s1793557122501935
urls	• https://www.worldscientific.com/doi/pdf/10.1142/S1793557122501935 • http://dx.doi.org/10.1142/s1793557122501935
id	id-3659438126554080711
abstract	
versions	

doc_2

authors	• Tu T. C Nguyen • Vu A. Le
title	Representation of Real Solvable Lie Algebras Having 2-dimensional Derived Ideal and Geometry of Coadjoint Orbits of Corresponding Lie Groups
publication_date	2021-05-02 19:16:33+00:00
source	SupportedSources.ARXIV
journal	None
volume	
doi	
urls	• http://arxiv.org/pdf/2105.00536v4 • http://arxiv.org/abs/2105.00536v4 • http://arxiv.org/pdf/2105.00536v4
id	id-9012397468683714886
abstract	Let {\Lnk} be the class of all n-dimensional real solvable Lie algebras having k-dimensional derived ideals. In 2020 the authors et al. gave a classification of all non 2-step nilpotent Lie algebras of {\Li}. We propose in this paper to study representations of these Lie algebras as well as their corresponding connected and simply connected Lie groups. That is, for each algebra, we give an upper bound of the minimal degree of a faithful representation. Then, we give a geometrical description of coadjoint orbits of corresponding groups. Moreover, we show that the characteristic property of the family of maximal dimensional coadjoint orbits of a MD-group studied by K. P. Shum and the second author et al. is still true for the Lie groups considered here. Namely, we prove that, for each considered group, the family of the maximal dimensional coadjoint orbits forms a measurable foliation in the sense of Connes. The topological classification of these foliations is also provided.
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DUPLICATES	460