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Title:	Distal Actions of Automorphisms of Lie Groups G on SubG
Authors:	Kumar Yadav, Alok (/jspui/browse?type=author&value=Kumar+Yadav%2C+Alok)
Keywords:	Distal actions Lie Groups
Issue Date:	2022
Publisher:	Cambridge University Press
Citation:	Mathematical Proceedings the Cambridge Philosophical Society, 173(2), 457-478.
Abstract:	For a locally compact metrisable group G, we study the action of Aut(G) on SubG , the set of closed subgroups of G endowed with the Chabauty topology. Given an automorphism T of G, we relate the distality of the T-action on SubG with that of the T-action on G under a certain condition If G is a connected Lie group, we characterise the distality of the T-action on SubG in terms of compactness of the closed subgroup generated by T in Aut(G) under certain conditions on the center of G or on T as follows: G has no compact central subgroup of positive dimension or T is unipotent or T is contained in the connected component of the identity in Aut(G) . Moreover, we also show that a connected Lie group G acts distally on SubG if and only if G is either compact or it is isomorphic to a direct product of a compact group and a vector group. All the results on the Lie groups mentioned above hold for the action on SubaG , a subset of SubG consisting of closed abelian subgroups of G.
Description:	Only IISER Mohali authors are available in the record.
URI:	https://doi.org/10.1017/S0305004121000694 (https://doi.org/10.1017/S0305004121000694) http://hdl.handle.net/123456789/5243 (http://hdl.handle.net/123456789/5243)
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