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Title:	Distal Actions of Automorphisms of Lie Groups G on SubG
Authors:	Yadav, Alok Kumar (/jspui/browse?type=author&value=Yadav%2C+Alok+Kumar)
Keywords:	Distal Actions
	Automorphisms
Issue Date:	2021
Publisher:	Cambridge university press
Citation:	Mathematical Proceedings of the Cambridge Philosophical Society, 1–22.
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.
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