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Generic 1-connectivity of flag domains in Hermitian symmetric spaces. (English)

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Summary: A flag domain is an open real group orbit in a complex flag manifold. It has been shown that a flag domain is either pseudoconvex or pseudoconcave. Moreover, generically 1-connected flag domains are pseudoconcave. In this study, for flag domains contained in irreducible Hermitian symmetric spaces of type $A_{III}$ or $C_{I}$, we determine which pseudoconcave flag domain is generically 1-connected.

MSC:

22E46 Semisimple Lie groups and their representations
53C35 Differential geometry of symmetric spaces
14M15 Grassmannians, Schubert varieties, flag manifolds
22E10 General properties and structure of complex Lie groups
32M05 Complex Lie groups, group actions on complex spaces
57S20 Noncompact Lie groups of transformations

Keywords:
flag domain; Hermitian symmetric space; Weyl group

Full Text: arXiv Link

References:


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