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Classification of Spherical Nilpotent Orbits in Complex Symmetric Space

Let G be the adjoint group of the simple real Lie algebra \mathfrak{g} , and let $K_{\mathbb{C}} \rightarrow \text{Aut}(\mathfrak{p}_{\mathbb{C}})$ be the complexified isotropy representation at the identity coset of the corresponding symmetric space. We classify the spherical nilpotent $K_{\mathbb{C}}$ orbits in $\mathfrak{p}_{\mathbb{C}}$.