On graph structures on great antipodal sets of Hermitian symmetric spaces

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Abstract

For an irreducible Hermitian symmetric space of compact type, there is a "good" finite subset of the space, which is called a great antipodal set. In this talk, we will explain the following fact: when we make a graph from each great antipodal set in a "natural way", the graph must be distance-transitive. Also we will give some remarks for relations between data of the graph and data of the ambient space. This is a joint work with Takayuki Okuda (Hiroshima University).