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*Cayley graphs and symmetric 4-polytopes*

In any abstract 4-polytope  $P$ , the faces of ranks 1 and 2 constitute, in an obvious way, the vertices of a graph which has been called the medial layer graph of  $P$ . We consider the Cayley graph for the group generated by a natural set of polarities of a finite, self-dual, regular or chiral 4-polytope  $P$  as a covering graph of the medial layer graph of  $P$ .