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ON THE BOUNDED OF VERTICES FOR THE REFLEXIVE POLYTOPE

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ABSTRACT

In this work the basic concept of the reflexive polytope with Earhart series for it are given. Two known inequalities on h-vector for the reflexive poytope are presented. By using them we give a complete classification of possible h-vector of integral reflexive polytope with $\sum_{i=0}^d h_i \leq 3$, the bounded of the number of vertices for the reflexive polytope are also proven.

KEYWORDS: On the Bounded of Vertices for the Reflexive Polytope