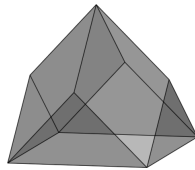


Negatively Self-Polar Polytopes

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Abstract

Negatively self-polar polytopes are a subset of self-dual polytopes which are the negative of their own polar. This talk will discuss the geometrical and combinatorial properties of such polytopes, answer some questions and pose others about their existence and construction, and show their relationship to chromatic numbers of certain graphs.

Keywords: polytope, graphs, chromatic number.