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A Universality Theorem for Nested Polytopes

Abstract for the Combinatorics Seminar 2018 September 18

Given a polytope S , a polytope P containing S , and a number k , the Nested Polytope problem asks whether there is a polytope Q with at most k vertices that contains S and is contained in P . We show that the Nested Polytope problem is ETR-complete.

This is joint work with Andreas Holmsen and Tillmann Miltzow.

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Last update: **2020/01/29 19:03**

