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Candidate Sets for the Art Gallery Problem

Abstract for the Combinatorics Seminar 2019 May 7

The decision version of the Art Gallery Problem asks, for a given polygon P and integer k , whether P can be guarded by k points. In other words, can P be covered by the visibility regions of at most k points in P ? A set C (of any size) is called a candidate set for (P,k) when, if P can be guarded by k points, it can be guarded by k points in C . I will show that it is not possible for an algorithm to produce a subexponential-sized candidate set in subexponential time unless the Exponential Time Hypothesis fails.

This is joint work with Tillmann Miltzow.

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

