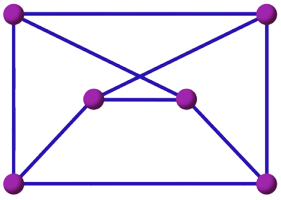

SEMINARIUM
MATEMATYKA DYSKRETNA

wtorek, 14 października 2025 r., godz. 12:30, s. 612 C7

A problem related to Eulerian graphs

Marcin Stawiski
WMS AGH

Let H be a finite subgraph of a connected graph G. We say that H is S-Eulerian if there exists a closed trail in G that traverses every edge of H exactly once, and the edges of G at most once. We prove that the problem of determining whether a subgraph H of a finite graph G is S-Eulerian is NP-Complete. However, if we restrict ourselves to connected subgraphs H, then the problem becomes polynomial.