

Seminar

Speaker: [Petr A. Golovach](#)
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Title: Hadwiger number of graphs with small chordality

Date: Friday, 17 Oct 2014

Time: 18:30-19:20

Location: [Univeristy of Athens,](#)
[Department of](#)
[Mathematics, University](#)
[of Athens, room Γ33](#)

Abstract

The Hadwiger number of a graph G is the largest integer h such that G has the complete graph K_h as a minor. We show that the problem of determining the Hadwiger number of a graph is NP-hard on co-bipartite graphs, but can be solved in polynomial time on cographs and on bipartite permutation graphs. We also consider a natural generalization of this problem that asks for the largest integer h such that G has a minor with h vertices and diameter at most s . We show that this problem can be solved in polynomial time on AT-free graphs when $s > 1$, but is NP-hard on chordal graphs for every fixed $s > 1$.

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