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Publications (April 25, 2024)

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All manuscripts available at http://arxiv.org/a/hajebi_s_1.

► PUBLISHED (12):

23. **Tree independence number**

I. (Even hole, diamond, pyramid)-free graphs

J. Graph Theory (2024)

with T. Abrishami, B. Alecu, M. Chudnovsky, S. Spirkl and K. Vušković.

22. **Induced subgraphs and tree decompositions**

VIII. Excluding a forest in (theta, prism)-free graphs

Combinatorica (2024)

with T. Abrishami, B. Alecu, M. Chudnovsky and S. Spirkl.

21. **List-3-Coloring ordered graphs with a forbidden induced subgraph**

SIAM J. Discrete Math 38(1) (2024)

with Y. Li and S. Spirkl.

20. **Hitting all maximum stable sets in P_5 -free graphs**

J. Comb. Theory Ser. B 165 (2024)

with Y. Li and S. Spirkl.

19. **Induced subgraphs and tree decompositions**

VII. Basic obstructions in H -free graphs

J. Comb. Theory Ser. B 164 (2024)

with T. Abrishami, B. Alecu, M. Chudnovsky and S. Spirkl.

18. **Induced subgraphs and tree decompositions**

II. Toward walls and their line graphs in graphs of bounded degree

J. Comb. Theory Ser. B 164 (2024)

with T. Abrishami, M. Chudnovsky, C. Dibek, P. Rzażewski, S. Spirkl and K. Vušković.

17. **Induced subgraphs and tree decompositions**

V. One neighbor in a hole

J. Graph Theory (2023)

with T. Abrishami, B. Alecu, M. Chudnovsky, S. Spirkl and K. Vušković.

16. **Induced subgraphs and tree decompositions**

IV. (Even hole, diamond, pyramid)-free graphs

Electron. J. Comb 30(2) (2023)

with T. Abrishami, M. Chudnovsky and S. Spirkl.

15. **Induced subgraphs and tree decompositions**

III. Three-path-configurations and logarithmic treewidth

Advances in Combinatorics (6) (2022)

with T. Abrishami, M. Chudnovsky and S. Spirkl.

14. **Complexity dichotomy for List-5-Coloring with a forbidden induced subgraph**

SIAM J. Discrete Math 256(6) (2022)

with Y. Li and S. Spirkl.

13. **Minimal induced subgraphs of two classes of non-Hamiltonian graphs**
Discrete Math. 345(7) (2022)
with J. Cheriyan, Z. Qu and S. Spirkl.
12. **Edge clique cover of claw-free graphs**
J. Graph Theory 90(3) (2019)
with R. Javadi.
- ACCEPTED OR TO APPEAR REVISION (1):
11. **List- k -Coloring H -free graphs for all $k > 4$**
Combinatorica (to appear)
arxiv:2311.05713 (2023)
with M. Chudnovsky and S. Spirkl.
- SUBMITTED (9):
10. **Chordal graphs, even-hole-free graphs and sparse obstructions to bounded treewidth**
arxiv:2401.01299 (2024)
solo paper.
9. **Induced subgraphs and tree decompositions**
XIV. Non-adjacent neighbors in a hole
arxiv:2311.05719 (2023)
with M. Chudnovsky and S. Spirkl.
8. **Induced subgraphs and tree decompositions**
XIII. Basic obstruction in \mathcal{H} -free graphs for finite \mathcal{H}
arxiv:2311.05066 (2023)
with B. Alecu, M. Chudnovsky and S. Spirkl.
7. **Induced subgraphs and tree decompositions**
XII. Grid Theorem for pinched graphs
arXiv:2309.12227 (2023)
with B. Alecu, M. Chudnovsky and S. Spirkl.
6. **Induced subgraphs and tree decompositions**
XI. Local structure in even-hole-free graphs of large treewidth
arXiv:2205.04420 (2023)
with B. Alecu, M. Chudnovsky and S. Spirkl.
5. **Induced subdivisions with pinned branch vertices**
arXiv:2308.01502 (2023)
solo paper.
4. **Induced subgraphs and tree decompositions**
X. Towards logarithmic treewidth for even-hole-free graphs
arXiv:2307.13684 (2023)
with T. Abrishami, B. Alecu, M. Chudnovsky and S. Spirkl.
3. **Induced subgraphs and tree decompositions**
IX. Grid theorem for perforated graphs
arXiv:2305.15615 (2023)
with B. Alecu, M. Chudnovsky and S. Spirkl.
2. **Induced subgraphs and tree decompositions**
VI. Graphs with 2-cutsets

arXiv:2207.05538 (2022)

with T. Abrishami, B. Alecu, M. Chudnovsky and S. Spirkl.

► TO BE SUBMITTED (1):

1. **Induced subgraphs and tree decompositions**

XV. Even-hole-free graphs of bounded clique number have logarithmic treewidth

arxiv:2402.14211 (2024)

with M. Chudnovsky, P. Gartland, D. Lokshtanov and S. Spirkl.

► UPCOMING:

-1. **Tree independence number**

II. Three-path-configurations

with M. Chudnovsky, D. Lokshtanov and S. Spirkl.

-2. **Tree independence number**

III. Even-hole-free graphs

with M. Chudnovsky, D. Lokshtanov and S. Spirkl.

-3. **Tree independence number**

IV. Excluding a star in (theta, prism)-free graphs

with M. Chudnovsky, S. Spirkl and N. Trotignon.

-4. **Induced subgraphs and tree decompositions**

XVI. Anticomplete induced subgraphs of large treewidth

with M. Chudnovsky and S. Spirkl.