

SEPEHR HAJEBI

Publications (January 22, 2024)

✉ shajebi@uwaterloo.ca | ✉ sepehr.hajebi@gmail.com | 🌐 sepehrhajebi.com

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

► PUBLISHED (9):

22. **Hitting all maximum stable sets in P_5 -free graphs**
J. Comb. Theory Ser. B 165 (2024)
with Y. Li and S. Spirkl.
21. **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.
20. **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.
19. **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.
18. **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.
17. **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.
16. **Complexity dichotomy for List-5-Coloring with a forbidden induced subgraph**
SIAM J. Discrete Math 256(6) (2022)
with Y. Li and S. Spirkl.
15. **Minimal induced subgraphs of two classes of 2-connected non-Hamiltonian graphs**
Discrete Math. 345(7) (2022)
with J. Cheriyan, Z. Qu and S. Spirkl.

14. **Edge clique cover of claw-free graphs**
 J. Graph Theory 90(3) (2019)
 with R. Javadi.
 ► ACCEPTED OR IN REVISION (2):
13. **List-3-Coloring ordered graphs with a forbidden induced subgraph**
 SIAM J. Discrete Math (accepted)
 arXiv:2206.06543 (2022)
 with Y. Li and S. Spirkl.
12. **Induced subgraphs and tree decompositions**
VIII. Excluding a forest in (theta, prism)-free graphs
 Combinatorica (in revision)
 arXiv:2301.02138 (2023)
 with T. Abrishami, B. Alecu, M. Chudnovsky and S. Spirkl.
 ► SUBMITTED (11):
11. **Chordal graphs, even-hole-free graphs and sparse obstructions to bounded treewidth**
<https://arxiv.org/pdf/2401.01299.pdf> (2024)
 solo paper.
10. **List- k -Coloring H -free graphs for all $k > 4$**
arxiv.org/abs/2311.05713 (2023)
 with M. Chudnovsky and S. Spirkl.
9. **Induced subgraphs and tree decompositions**
XIV. Non-adjacent neighbors in a hole
arxiv.org/abs/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.org/abs/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. **Tree independence number for (even hole, diamond, pyramid)-free graphs**
arXiv:2305.16258 (2023)
with T. Abrishami, B. Alecu, M. Chudnovsky, S. Spirkl and K. Vušković.
 2. **Induced subgraphs and tree decompositions**
IX. Grid theorem for perforated graphs
arXiv:2305.15615 (2023)
with B. Alecu, M. Chudnovsky and S. Spirkl.
 1. **Induced subgraphs and tree decompositions**
VI. Graphs with 2-cutsets
arXiv:2207.05538 (2022)
with T. Abrishami, B. Alecu, M. Chudnovsky and S. Spirkl (2022)
- UPCOMING (2):
- 1. **Induced subgraphs and tree decompositions**
XV. Even-hole-free graphs have logarithmic treewidth
with M. Chudnovsky, P. Gartland, D. Lokshtanov and S. Spirkl.
 - 2. **Proof labelling schemes for forbidden induced subgraphs**
with N. Bousquest, A. Chaniotis, L. Cook, S. Spirkl, P. Théo and S. Zeitoun.