## SEPEHR HAJEBI

Publications (May 27, 2024)

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Note: All manuscripts are available at http://arxiv.org/a/hajebi\_s\_1.

- ightharpoonup Published (13):
- 24. List-k-Coloring H-free graphs for all k > 4 Combinatorica (2024) with M. Chudnovsky and S. Spirkl.
- 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. Rzążewski, 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 2-connected 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.

- ightharpoonup Submitted (11):
- 11. Tree independence number II. Three-path-configurations arxiv: 2405.00265 (2024) with M. Chudnovsky, D. Lokshtanov and S. Spirkl.
- Induced subgraphs and tree decompositions
  XV. Even-hole-free graphs with bounded clique number have logarithmic treewidth arxiv:2402.14211 (2024)
   with M. Chudnovsky, P. Gartland, D. Lokshtanov and S. Spirkl.
- 9. Chordal graphs, even-hole-free graphs and sparse obstructions to bounded treewidth arxiv:2401.01299 (2024) solo paper.
- 8. Induced subgraphs and tree decompositions XIV. Non-adjacent neighbors in a hole arxiv:2311.05719 (2023) with M. Chudnovsky and S. Spirkl.
- 7. 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.
- 6. Induced subgraphs and tree decompositions XII. Grid Theorem for pinched graphs arXiv:2309.12227 (2023) with B. Alecu, M. Chudnovsky and S. Spirkl.
- 5. 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.

4. Induced subdivisions with pinned branch vertices arXiv:2308.01502 (2023) solo paper.

3. 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.

2. Induced subgraphs and tree decompositions IX. Grid theorem for perforated graphs arXiv:2305.15615 (2023) with B. Alecu, M. Chudnovsky and S. Spirkl.

Induced subgraphs and tree decompositions
 VI. Graphs with 2-cutsets
 arXiv:2207.05538 (2022)
 with T. Abrishami, B. Alecu, M. Chudnovsky and S. Spirkl.

## ► UPCOMING:

- -1. Tree independence number III. Even-hole-free graphs with M. Chudnovsky, D. Lokshtanov and S. Spirkl.
- -2. Tree independence number IV. Excluding a star in (theta, prism)-free graphs with M. Chudnovsky, S. Spirkl and N. Trotignon.
- -3. Induced subgraphs and tree decompositions XVI. Grid Theorem for constellations with M. Chudnovsky and S. Spirkl.
- -4. Induced subgraphs and tree decompositions XVII. Complete bipartite induced minors with M. Chudnovsky and S. Spirkl.
- -5. Induced subgraphs and tree decompositions XVIII. Anticomplete induced subgraphs of large treewidth with M. Chudnovsky and S. Spirkl.