SEPEHR HAJEBI

Publications (August 7, 2024)

- ▶ Published (13):
- 26. List-k-Coloring H-free graphs for all k > 4 Combinatorica (2024) with M. Chudnovsky and S. Spirkl.
- 25. Tree independence number
 I. (Even hole, diamond, pyramid)-free graphs
 Journal of Graph Theory (2024)

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

24. 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.

- 23. List-3-Coloring ordered graphs with a forbidden induced subgraph SIAM Journal on Discrete Mathematics (2024) with Y. Li and S. Spirkl.
- 22. Hitting all maximum stable sets in P_5 -free graphs Journal of Combinatorial Theory Series B (2024) with Y. Li and S. Spirkl.
- 21. Induced subgraphs and tree decompositions VII. Basic obstructions in H-free graphs Journal of Combinatorial Theory Series B (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 Journal of Combinatorial Theory Series B (2024) with T. Abrishami, M. Chudnovsky, C. Dibek, P. Rzążewski, S. Spirkl and K. Vušković.
- Induced subgraphs and tree decompositions
 V. One neighbor in a hole
 Journal of 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 Electronic Journal of Combinatorics (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 (2022) with T. Abrishami, M. Chudnovsky and S. Spirkl.

- 16. Complexity dichotomy for List-5-Coloring with a forbidden induced subgraph SIAM Journal on Discrete Mathematics (2022) with Y. Li and S. Spirkl.
- 15. Minimal induced subgraphs of two classes of 2-connected non-Hamiltonian graphs Discrete Mathematics (2022) with J. Cheriyan, Z. Qu and S. Spirkl.
- 14. Edge clique cover of claw-free graphs Journal of Graph Theory (2019) with R. Javadi.
- ▶ SUBMITTED (13):
- Tree independence number
 IV. Even-hole-free graphs
 arxiv:2407.08927 (2024)
 with M. Chudnovsky, P. Gartland, D. Lokshtanov and S. Spirkl.
- 12. Tree independence number III. Thetas, prisms and stars arxiv:2406.13053 (2024) with M. Chudnovsky and N. Trotignon.
- 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)
 Single-author 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)
Single-author 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.

► DOCTORAL THESIS:

0. Foreshadowing the Grid Theorem for Induced Subgraphs University of Waterloo (2024)

► UPCOMING:

- -1. Critically *H*-free graphs with *X*. Fan, Sahab Hajebi and *S*. Spirkl.
- -2. Induced subgraphs and tree decompositions XVI. Grid Theorem for constellations with M. Chudnovsky and S. Spirkl.
- -3. Induced subgraphs and tree decompositions XVII. Complete bipartite induced minors with M. Chudnovsky and S. Spirkl.
- -4. Induced subgraphs and tree decompositions XVIII. Anticomplete induced subgraphs of large treewidth with M. Chudnovsky and S. Spirkl.
- -5. Clique covers in graphs with stability number two with P. Seymour.