

Publications that the authors say were based on discussions at Barbados graph theory workshops.

The year given is the year the paper was posted to arXiv, unless it seems not to be on arXiv, when it is the publication date.

2025

- Robert Hickingbotham, “Graphs quasi-isometric to graphs with bounded treewidth”, [arxiv:2501.10840](#)
- Sergey Norin, Raphael Steiner “Defective coloring of blowups”, [arXiv:2504.01548](#)

2024

- Freddie Illingworth, David R. Wood, “Dominating K_t -models”, [arxiv:2405.14299](#)
- Chun-Hung Liu, Sergey Norin, David R. Wood, “Product structure and tree-decompositions” [arxiv:2410.20333](#).
- Kevin Hendrey, Freddie Illingworth, Nina Kamčev, Jane Tan, “When t -intersecting hypergraphs admit bounded c -strong colourings”, [arxiv:2406.13402](#).
- R. Shi and F. Wei, “Extremal number of cliques of given orders in graphs with a forbidden clique minor”, [arXiv:2408.12082](#)
- Carla Groenland, Sean Longbrake, Raphael Steiner, Jérémie Turcotte, Liana Yepremyan, “Longest cycles in vertex-transitive and highly connected graphs”. [arXiv:2408.04618](#).
- Maria Chudnovsky, Nicolas Trotignon, “On treewidth and maximum cliques”, [arXiv:2405.07471](#).
- Maria Chudnovsky, Sepehr Hajebi, Sophie Spirkl, “Induced subgraphs and tree decompositions XVII. Anticomplete sets of large treewidth”, [arXiv:2411.11842](#).
- Maria Chudnovsky, Sepehr Hajebi, Sophie Spirkl, “Induced subgraphs and tree decompositions XVI: Complete bipartite induced minors” [arXiv:2410.16495](#).
- James Davies, Meike Hatzel, Liana Yepremyan, “Counterexample to Babai’s lonely colour conjecture” [arXiv:2410.05199](#).
- Maria Chudnovsky, Meike Hatzel, Tuukka Korhonen, Nicolas Trotignon, Sebastian Wiederrecht, “Unavoidable induced subgraphs in graphs with complete bipartite induced minors”, [arXiv:2405.01879](#).

- Chun-Hung Liu, Youngho Yoo, “Tight minimum degree conditions for apex-outerplanar minors and subdivisions in graphs and digraphs”, [arXiv:2403.11470](https://arxiv.org/abs/2403.11470).
- Maria Chudnovsky, Marcin Pilipczuk, Michał Pilipczuk, and Stéphan Thomassé, “Quasi-polynomial time approximation schemes for the maximum weight independent set problem in H -r-free graphs”, <https://doi.org/10.1137/20M1333778>.

2023

- Kevin Hendrey, Sergey Norin, Raphael Steiner, Jérémie Turcotte “Finding dense minors using average degree”, [arxiv:2307.01184](https://arxiv.org/abs/2307.01184).
- Tara Abrishami, Bogdan Alecu, Maria Chudnovsky, Sepehr Hajebi, Sophie Spirkl, Kristina Vušković, “Tree independence number I. (Even hole, diamond, pyramid)-free graphs”, [arxiv:2305.16258](https://arxiv.org/abs/2305.16258).
- Vida Dujmović, Louis Esperet, Pat Morin, David R. Wood “Proof of the clustered Hadwiger conjecture”, [arxiv:2306.06224](https://arxiv.org/abs/2306.06224).
- Pablo Blanco, Linda Cook, Meike Hatzel, Claire Hilaire, Freddie Illingworth, Rose McCarty, “On tree decompositions whose trees are minors”, [arXiv:2302.12106](https://arxiv.org/abs/2302.12106).
- Maria Chudnovsky, Sergey Norin, Paul Seymour, Jérémie Turcotte “Cops and robbers on P_5 -free graphs”, [arXiv:2301.13175](https://arxiv.org/abs/2301.13175).
- Bryce Frederickson, Liana Yepremyan, “Vector space Ramsey numbers and weakly Sidorenko affine configurations”, [arXiv:2308.13489](https://arxiv.org/abs/2308.13489).
- Bogdan Alecu, Maria Chudnovsky, Sepehr Hajebi, Sophie Spirkl, “Induced subgraphs and tree decompositions IX. Grid theorem for perforated graphs”, [arXiv:2305.15615](https://arxiv.org/abs/2305.15615).
- Noga Alon, Matija Bucić, Lisa Sauermann, Dmitrii Zakharov, Or Zamir, “Essentially tight bounds for rainbow cycles in proper edge-colourings”, [arXiv:2309.04460](https://arxiv.org/abs/2309.04460)
- Noga Alon, Matija Bucić, Lisa Sauermann, “Unit and distinct distances in typical norms”, [arXiv:2302.09058](https://arxiv.org/abs/2302.09058).
- Jagdeep Singh, Vaidy Sivaraman, Thomas Zaslavsky, “Apex graphs and cographs”, [arXiv:2310.02551](https://arxiv.org/abs/2310.02551).

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- G Blekherman, A Raymond, F. Wei, “Undecidability of polynomial inequalities in weighted graph homomorphism densities”, [arXiv:2207.12378](https://arxiv.org/abs/2207.12378).

- Sergey Norin, Paul Seymour, “Dense minors of graphs with independence number two”, [arXiv:2206.00186](#).
- Marthe Bonamy, Édouard Bonnet, Hugues Déprés, Louis Esperet, Colin Geniet, Claire Hilaire, Stéphan Thomassé, Alexandra Wesolek, “Sparse graphs with bounded induced cycle packing number have logarithmic treewidth”, [arXiv:2206.00594](#).
- Tung Nguyen, Alex Scott, Paul Seymour, “Induced paths in graphs without anticomplete cycles”, [arXiv:2212.01089](#).

2021

- T. Karthick, Jenny Kaufmann, Vaidy Sivaraman, “Coloring graph classes with no induced fork via perfect divisibility”, [arXiv:2104.02807](#).

2020

- Tara Abrishami, Maria Chudnovsky, Cemil Dibeck, Stéphan Thomassé, Nicolas Trotignon, Kristina Vušković “Graphs with polynomially many minimal separators”, [arXiv:2005.05042](#).
- Vida Dujmović, Louis Esperet, Pat Morin, Bartosz Walczak, David R. Wood, “Clustered 3-colouring graphs of bounded degree”, [arxiv:2002.11721](#).

2019

- Zdeněk Dvořák, Natasha Morrison, Jonathan A. Noel, Sergey Norin, Luke Postle, “Bounding the number of cycles in a graph in terms of its degree sequence”, [arXiv:1907.12091](#)
- Ringi Kim, Sergey Norin, Sang-il Oum, “Obstructions for partitioning into forests and outerplanar graphs”, [arXiv:1903.08425](#).
- V. Dujmović, L. Esperet, G. Joret, B. Walczak, D. R. Wood, “Planar graphs have bounded non-repetitive chromatic number”, [arXiv:1904.05269](#).

2018

- Kevin Hendrey, David R. Wood. “Defective and clustered choosability of sparse graphs” [arXiv:1806.07040](#).
- Maria Chudnovsky, Sang-il Oum, “Vertex-minors and the Erdős–Hajnal conjecture”, [arXiv:1804.11008](#).
- Louigi Addario-Berry, Bruce Reed, Alex Scott, David R. Wood, “A logarithmic bound for the chromatic number of the associahedron”, [arxiv:1811.08972](#).

- Maria Chudnovsky, Ringi Kim, Chun-Hung Liu, Paul Seymour, Stéphan Thomassé, “Domination in tournaments”, <https://doi.org/10.1016/j.jctb.2017.10.001>.
- Ringi Kim, O-joung Kwon, Sang-il Oum, Vaidy Sivaraman, “Classes of graphs with no long cycle as a vertex-minor are polynomially χ -bounded”, [arXiv:1809.04278](https://arxiv.org/abs/1809.04278).

2017

- Sergey Norin, Alex Scott, Paul Seymour, David R. Wood, “Clustered colouring in minor-closed classes”, [arXiv:1708.02370](https://arxiv.org/abs/1708.02370).
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- Maria Chudnovsky, Vaidy Sivaraman, “Odd holes in bull-free graphs”, [arXiv:1704.04262](https://arxiv.org/abs/1704.04262).
- Maria Chudnovsky, Vaidy Sivaraman, “Perfect divisibility and 2-divisibility”, [arXiv:1704.06667](https://arxiv.org/abs/1704.06667).

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- Colin McDiarmid, David R. Wood, “Edge-maximal graphs on surfaces”, [arXiv:1608.01496](https://arxiv.org/abs/1608.01496).
- Stephan Kreutzer, Sang-il Oum, Paul Seymour, Dominic van der Zypen, David R. Wood, “Majority colourings of digraphs”, [arXiv:1608.03040](https://arxiv.org/abs/1608.03040)

2015

- Maria Chudnovsky, Sergey Norin, Bruce Reed, and Paul Seymour, “Excluding a substar and an antistar”, <https://doi.org/10.1137/130946113>.
- Endre Csóka, Irene Lo, Sergey Norin, Hehui Wu, Liana Yepremyan, “The extremal function for disconnected minors”, [arXiv:1509.01185](https://arxiv.org/abs/1509.01185).
- Maria Chudnovsky, Ringi Kim, Sang-il Oum, Paul Seymour. “Unavoidable induced subgraphs in large graphs with no homogeneous sets”, [arXiv:1504.05322](https://arxiv.org/abs/1504.05322).
- Eli Berger, Zdenek Dvorak, Sergey Norin, “Treewidth of grid subsets”, [arXiv:1512.06441](https://arxiv.org/abs/1512.06441).

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- Bruce Reed, David R. Wood, “Forcing a sparse minor”, [arXiv:1402.0272](https://arxiv.org/abs/1402.0272).
- Marthe Bonamy, Pierre Charbit, Stéphan Thomassé, “Graphs with large chromatic number induce $3k$ -cycles”, [arXiv:1408.2172v1](https://arxiv.org/abs/1408.2172v1).

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- Peter Keevash, Zhentao Li, Bojan Mohar, and Bruce Reed, “Digraph girth versus chromatic number”, <https://doi.org/10.1137/120875892>.

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- Maria Chudnovsky, Bruce Reed, Paul Seymour, “The edge-density for $K_{2,t}$ minors”, <https://doi.org/10.1016/j.jctb.2010.09.001>.