Publications and Preprints

Maria Chudnovsky

Papers published

- Even pairs in Berge graphs (*with* Paul Seymour) *Journal of Combinatorial Theory. Ser B, 99 (2009), 370-377*
- Bisimplicial vertices in even-hole-free graphs (*with* L. Addario-Berry, F. Havet, B. Reed and P. Seymour) *Journal of Combinatorial Theory. Ser B, 98 (2008), 1119-1164*
- Clawfree Graphs V — Global structure (*with* Paul Seymour) *Journal of Combinatorial Theory. Ser B, Vol. 98 (2008), 1373-1410*
- The Erdos Hajnal Conjecture for bullfree graphs (*with* S. Safra) *Journal of Combinatorial Theory. Ser B, 98 (2008), 1301-1310*
- Hadwiger's conjecture for quasi-line graphs (*with* A. Overtsky Fradkin) *Journal of Graph Theory 59 (2008), 17-33*
- Detecting a theta or a prism (*with* R. Kapadia) *SIAM Journal on Discrete Math 22(2008), 1164-1186*
- An algorithm for packing non-zero A-paths in group-labeled graphs (*with* William H. Cunningham and Jim Geelen) *Combinatorica 28(2008), 145-161*
- Cycles in dense digraphs (*with* Paul Seymour and Blair Sullivan) *Combinatorica 28(2008), 1-18*
- Partial characterizations of clique-perfect graphs I : subclasses of claw-free graphs (*with* Flavia Bonomo and Guillermo Durán) *Discrete Applied Mathematics 156 (2008), 1058-1082*
- Clawfree Graphs IV — Decomposition theorem (*with* Paul Seymour) *Journal of Combinatorial Theory. Ser B, Vol. 98 (2008), 839-938*
- Solution of three problems of Cornuéjols (*with* Paul Seymour) *Journal of Combinatorial Theory. Ser B, Vol. 98 (2008), 116-135*
- Clawfree Graphs III — Circular interval graphs (*with* Paul Seymour) *Journal of Combinatorial Theory. Ser B 98(2008), 812-834*
- Clawfree Graphs II — Non-orientable prismatic graphs (*with* Paul Seymour) *Journal of Combinatorial Theory. Ser B, Vol. 98 (2008), 249-290*

- Clawfree Graphs I — Orientable prismatic graphs (*with* Paul Seymour) *Journal of Combinatorial Theory. Ser B, Vol. 97 (2007), 867-901*
- Excluding induced subgraphs (*with* Paul Seymour) Surveys in Combinatorics 2007, *London Math Soc Lecture Note Series Vol. 346, 99-119*
- Coloring quasi-line graphs (*with* Alexandra Ovetsky) *Journal of Graph Theory Vol. 54(2007), 41-50*
- The Roots of the Independence Polynomial of a Clawfree Graph (*with* Paul Seymour) *Journal of Combinatorial Theory. Ser B, Vol. 97 (2007), 350-357*
- The Strong Perfect Graph Theorem (*with* N.Robertson, P.Seymour, R.Thomas) *Annals of Math Vol 164(2006), 51-229*
- Non-zero A-paths in graphs with edges labeled by group elements (*with* Jim Geelen, Bert Gerards, Luis Goddyn, Michael Lohman, and Paul Seymour) *Combinatorica, Ser. B 26(2006), 521-532*
- Berge Trigraphs *Journal of Graph Theory Vol 53(2006), 1-55*
- The Structure of Clawfree Graphs (*with* Paul Seymour) Surveys in Combinatorics 2005, *London Math Soc Lecture Note Series Vol. 327, 153-171*
- Partial characterizations of clique-perfect graphs, (*with* F. Bonomo, and G.Durán) *Electronic Notes in Discrete Mathematics Vol. 19(2005), 95–101* (extended abstract)
- Recognizing Berge Graphs (*with* G.Cornuéjols, X.Liu, P.Seymour, K.Vušković) *Combinatorica Vol. 25(2005), 143-187*
- Detecting Even Holes (*with* K. Kawarabayashi, P. Seymour) *Journal of Graph Theory Vol. 48(2005), 85-111*
- Progress on Perfect Graphs (*with* N.Robertson, P.Seymour, R.Thomas) *Mathematical Programming Ser. B 97(2003), 405-422*
- Berge Trigraphs and Their Applications, *Ph.D. Thesis, Princeton University, 2003*
- Triangulated Spheres and Colored Cliques (*with* R. Aharoni, A. Kotlov) *Discrete and Computational Geometry 28 (2002), 223-229*

- Systems of Disjoint Representatives, M.Sc. Thesis, Technion.

Papers to appear

- K_4-free graphs with no odd holes (*with* N. Robertson, P. Seymour and R. Thomas) *to appear in JCT B*
- Perfect matchings in planar cubic graphs (*with* Paul Seymour) *to appear in Combinatorica*
- The three-in-a-tree problem (*with* Paul Seymour) *to appear in Combinatorica*
- An approximate version of Hadwiger's conjecture for claw-free graphs (*with* Alexandra Ovetsky Fradkin) *to appear in the Journal of Graph Theory*
- Partial characterizations of clique-perfect graphs II : diamond-free and Helly circular-arc graphs (*with* Flavia Bonomo and Guillermo Durán) *to appear in Discrete Mathematics*

Papers submitted for publication

- Analyzing the performance of greedy maximal scheduling via local pooling and graph theory (conference version) (*with* Berk Birand, Paul Seymour, Bernard Ries, Gil Zussman and Yori Zwols) *submitted for publication*
- Finding minimum clique capacity (*with* Sang-il Oum and Paul Seymour) *submitted for publication*
- Large cliques or stable sets in graphs with no four-edge path and no five-edge path in the complement (*with* Yori Zwols) *submitted for publication*
- A well-quasi-order for tournaments (*with* Paul Seymour) *submitted for publication*
- Edge density for $K_{2,t}$ minors (*with* Bruce Reed and Paul Seymour) *submitted for publication*
- Three-colorable perfect graph without even pairs (*with* Paul Seymour) *submitted for publication*

- The structure of bull-free graphs I — Three-edge-paths with center and anti-centers *submitted for publication*
- The structure of bull-free graphs II — Elementary trigraphs *submitted for publication*
- The structure of bull-free graphs III — Global structure *submitted for publication*
- Packing seagulls (*with* Paul Seymour) *submitted for publication*
- Clawfree Graphs VI. Coloring claw-free graphs (*with* Paul Seymour) *submitted for publication*
- Clawfree Graphs VII. Quasi-line graphs (*with* Paul Seymour) *submitted for publication*

Manuscripts not yet submitted and papers in preparation

- Maximal stable sets in claw-free graphs I. Graphs with no stable set of size four. (*with* Bernard Ries and Yori Zwols)*in preparation*
- Maximal stable sets in claw-free graphs II. Strip structures. (*with* Bernard Ries and Yori Zwols) *in preparation*
- The proof of Rao's conjecture on degree sequences (*with* Paul Seymour) *in preparation*