PUBLICATIONS ON PLANAR SEMIMODULAR LATTICES

The list[1] below[2] consists of those publications that

- deal with slim semimodular or planar semimodular lattices, or
- generalize, use, or enumerate slim semimodular lattices.

The list only contains papers that

have appeared or

have been recently uploaded to www.arXiv.org;

these papers have permanent coordinates.

1 ▸ Adaricheva, K., Czédli, G.: Note on the description of join-distributive lattices by permutations. Algebra Universalis **72**, 155–162 (2014)

2 ▸ Czédli, G.: The matrix of a slim semimodular lattice, Order 29 (2012) 85–103

3 ▸ Czédli, G.: Representing homomorphisms of distributive lattices as restrictions of congruences of rectangular lattices, Algebra Universalis 67, 313–345 (2012)

4 ▸ Czédli, G.: Finite convex geometries of circles. Discrete Mathematics **330**, 61–75 (2014)

5 ▸ Czédli, G.: Coordinatization of finite join-distributive lattices. Algebra Universalis **71**, 385–404 (2014)

6 ▸ Czédli, G.: Patch extensions and trajectory colorings of slim rectangular lattices, Algebra Universalis **72**, 125–154 (2014)

7 ▸ Czédli, G.: A note on congruence lattices of slim semimodular lattices, Algebra Universalis, **72**, 225–230 (2014)

8 ▸ Czédli, G.: Quasiplanar diagrams and slim semimodular lattices. Order **33**, 239–262 (2016)

9 ▸ Czédli, G.: The asymptotic number of planar, slim, semimodular lattice diagrams, Order **33**, 231–237 (2016)

10 ▸ Czédli, G.: Diagrams and rectangular extensions of planar semimodular lattices. Algebra Universalis **77**, 443–498 (2017)

11 ▸ Czédli, G.: Lamps in slim rectangular planar semimodular lattices; Acta Sci. Math. (Szeged) 87 (2021), 381-413. DOI 10.14232/actasm-021-865-y, arXiv:2101.02929

12 ▸ Czédli, G.: Cyclic congruences of slim semimodular lattices and non-finite axiomatizability of some finite structures. Archivum Mathematicum Brno **58** (2022) 15–33. DOI 10.5817/AM2022-1-15; arXiv:2102.00526

13 ▸ Czédli, G.: A property of meets in slim semimodular lattices and its application to retracts. Acta Sci. Math. **88**, 595–610 (2022) DOI 10.1007/s44146-022-00040-z; arXiv:2112.07594

14 ▸ Czédli, G.: Infinitely many new properties of the congruence lattices of slim semimodular lattices. Acta Sci. Math. (Szeged), DOI 10.1007/s44146-023-00069-8; earlier version arXiv:2206.14769

15 ▸ Czédli, G.: Revisiting Faigle geometries from a perspective of semimodular lattices. arXiv:2107.10202

16 ▸ Czédli, G.: Slim patch lattices as absolute retracts and maximal lattices. arXiv:2105.12868

17 ▸ Czédli, G.: $\mathcal{C}_1$-diagrams of slim rectangular semimodular lattices permit quotient diagrams. arXiv:2208.03606

18 ▸ Czédli, G.: Reducing the lengths of slim planar semimodular lattices without changing their congruence lattices. arXiv:2301.00401

Date: April 18, 2023.

[1]Edited by Gábor Czédli. Some preprints and, sometimes in before publication cases, the most recent versions are available from his website. For papers that have already appeared in journals, the arXiv-versions are not always indicated.

[2]Derived from list-planar-semimodular.tex

19 ▸ Czédli, G., Dékány, T., Gyenizse, G., Kulin, J.: The number of slim rectangular lattices. Algebra Universalis **75**, 33–50 (2016)

20 ▸ Czédli, G., Dékány, T., Ozsvárt, L., Szakács, N., Udvari, B.: On the number of slim, semimodular lattices, Mathematica Slovaca, **66**, 5–18 (2016)

21 ▸ Czédli, G., Grätzer, G.: Planar semimodular lattices: structure and diagrams. Chapter 3 in: Grätzer, G., Wehrung, F. (eds.), Lattice Theory: Special Topics and Applications, pp 91–130, Birkhäuser, Basel (2014)

22 ▸ Czédli, G., Grätzer, G.: Notes on planar semimodular lattices. VII. Resections of planar semimodular lattices. Order **30**, 847–858 (2013)

23 ▸ Czédli, G., Grätzer, G.: A new property of congruence lattices of slim, planar, semimodular lattices. Categories and General Algebraic Structures with Applications, accepted for publication. Categories and General Algebraic Structures with Applications **16**, 1–28, 2022. download from the journal here (or use this more direct link); arXiv:2103.04458

24 ▸ Czédli, G., Grätzer, G., Lakser, H.: Congruence structure of planar semimodular lattices: the general swing lemma. Algebra Universalis **79**:40, 18 pp (2018)

25 ▸ Czédli, G., Kurusa, Á.: A convex combinatorial property of compact sets in the plane and its roots in lattice theory. Categories and General Algebraic Structures with Applications **11**, 57–92 (2019). download from the journal here (or use this more direct link)

26 ▸ Czédli, G., Makay, G.: Swing lattice game and a direct proof of the swing lemma for planar semimodular lattices. Acta Sci. Math. (Szeged) **83**, 13–29 (2017)

27 ▸ Czédli, G., Molkhasi, A.: Absolute retracts for finite distributive lattices and slim semimodular lattices. Order, DOI 10.1007/s11083-021-09592-1; arXiv: 2105.10604

28 ▸ Czédli, G., Ozsvárt, L., Udvari, B.: :How many ways can two composition series intersect? Discrete Mathematics 312, 3523–3536 (2012)

29 ▸ Czédli, G., Schmidt, E.T.: Some results on semimodular lattices, Contributions to General Algebra 19. Proceedings of the Olomouc Conference 2010 (AAA 79+ CYA 25) , Verlag Johannes Hein, Klagenfurt 2010, 45-56. ISBN 978-3-7084-0407-3

30 ▸ Czédli, G., Schmidt, E.T.: The Jordan-Hölder theorem with uniqueness for groups and semimodular lattices. Algebra Universalis **66**, 69–79 (2011)

31 ▸ Czédli, G., Schmidt, E.T.: Composition series in groups and the structure of slim semimodular lattices, Acta Sci Math. (Szeged) 79 (2013), 369–390.

32 ▸ Czédli, G., Schmidt, E.T.: Slim semimodular lattices. I. A visual approach. Order **29**, 481–497 (2012)

33 ▸ Czédli, G., Schmidt, E.T.: Slim semimodular lattices. II. A description by patchwork systems. Order **30**, 689–721 (2013)

34 ▸ Dékány, T., Gyenizse, G., Kulin, J.: Permutations assigned to slim rectangular lattices. Acta Sci. Math. (Szeged) **82**, 19–28 (2016)

35 ▸ Grätzer, G.: Planar semimodular lattices: congruences. in: Grätzer, G., Wehrung, F. (eds.), Lattice Theory: Special Topics and Applications. Vol. 1, Chapter 4, pp 131–165, Birkhäuser, Basel (2014)

36 ▸ Grätzer, G.: On a result of Gábor Czédli concerning congruence lattices of planar semimodular lattices. Acta Sci. Math. (Szeged) **81**, 25–32 (2015)

37 ▸ Grätzer, G.: Notes on planar semimodular lattices. VI. On the structure theorem of planar semimodular lattices. Algebra Universalis **69**, 301–304 (2013)

38 ▸ Grätzer, G.: Congruences in slim, planar, semimodular lattices: The Swing Lemma. Acta Sci. Math. (Szeged) **81**, 381–397 (2015)

39 ▸ Grätzer, G.: Congruences of fork extensions of slim, planar, semimodular lattices. Algebra Universalis **76**, 139–154 (2016)

40 ▸ Grätzer, G.: Congruences and trajectories in planar semimodular lattices. Discuss. Math. Gen. Algebra Appl. **38**, 131–142 (2018)

41 ▸ Grätzer, G.: Notes on planar semimodular lattices. VIII. Congruence lattices of SPS lattices. Algebra Universalis **81**:15 (I.e., No. 2, Paper No. 15; 3 pp) (2020)

42 ▸ Grätzer, G.: Applying the Czédli-Schmidt sequences to congruence properties of planar semimodular lattices. Discuss. Math. Gen. Algebra Appl. **41**, 153–169 (2021); download from Sciendo or try at DOI 10.7151/dmgaa.1359

43 ▸ Grätzer, G.: Notes on planar semimodular lattice. IX. $\mathcal{C}_1$-diagrams. Discuss. Math. Gen. Algebra Appl., to appear. arXiv:2104.02534

44 ▸ Grätzer, G.: Using the swing lemma and $\mathcal{C}_1$-diagrams for congruences of planar semimodular lattices[3]. Discussiones Mathematicae General Algebra and Applications, Available online: January 11, 2023, DOI 10.7151/dmgaa; earlier version arXiv:2106.03241

45 ▸ Grätzer, G.: On a property of congruence lattices of slim, planar, semimodular lattices. arXiv:2205.10922

46 ▸ Grätzer, G.: On slim rectangular lattices. Acta Sci. Math. DOI 10.1007/s44146-023-00058-x, arXiv:2205.10966

47 ▸ Grätzer, G.: An open problem on congruences of finite lattices[4]. arXiv:2303.00699

48 ▸ Grätzer, G., Knapp, E.: Notes on planar semimodular lattices. I. Construction. Acta Sci. Math. (Szeged) **73**, 445–462 (2007)

49 ▸ Grätzer, G., Knapp, E.: A note on planar semimodular lattices. Algebra Universalis **58**, 497–499 (2008)

50 ▸ Grätzer, G., Knapp, E.: Notes on planar semimodular lattices. II. Congruences. Acta Sci. Math. (Szeged) **74**, 37–47 (2008)

51 ▸ Grätzer, G., Knapp, E.: Notes on planar semimodular lattices. III. Congruences of rectangular lattices. Acta Sci. Math. (Szeged), **75**, 29–48 (2009)

52 ▸ Grätzer, G., Knapp, E.: Notes on planar semimodular lattices. IV. The size of a minimal congruence lattice representation with rectangular lattices. Acta Sci. Math. (Szeged) **76**, 3–26 (2010)

53 ▸ Grätzer, G., Lakser, H.: Homomorphisms of distributive lattices as restrictions of congruences. III. Rectangular lattices and two convex sublattices. arXiv:2112.15248

54 ▸ Grätzer, G., Schmidt, E. T.: An extension theorem for planar semimodular lattices. Period. Math. Hungar. **69**, 32–40 (2014)

55 ▸ Grätzer, G., Schmidt, E. T.: A short proof of the congruence representation theorem of rectangular lattices. Algebra Universalis **71**, 65–68 (2014)

56 ▸ Grätzer, G., Wares, T.: Notes on planar semimodular lattices. V. Cover-preserving embeddings of finite semimodular lattices into simple semimodular lattices. Acta Sci. Math. (Szeged) **76**, 27–33 (2010)

[3]Also under the title "Applying the swing lemma and $\mathcal{C}_1$-diagrams to congruences of planar semimodular lattices".

[4]Suffixed by "in pictures" in arXiv:2303.00699v1.