HOMOGENEITY AND RELATED TOPICS: AN EXTENDED BIBLIOGRAPHY

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ABSTRACT

We give a bibliography of works relating to homogeneous structures in the sense of Fraïssé, and related topics, mainly through 2016, with some narrow updating through 2021.

We first give a list arranged by topics, with references to the main bibliography, which follows.

Technical note, 12/2021. The style file used for the bibliography mishandles long author strings and leaves many orphan lines after authors' names. So the tex file for the bibliography has been edited by hand. If editing further note the difference between \bibfitem and \bibritem for the first and subsequent occurrences of a group of authors.

CONTENTS

§1. Literature: a rapid survey. The present Appendix contains an outline of some literature related in various ways to the theory of homogeneous structures and some natural generalizations, mainly through 2916, with a few additions. Some of this bears on the classification of countable homogeneous structures of various types or the close study of their automorphism groups and associated combinatorial problems.

A more focused bibliography accompanies the comprehensive survey in Macpherson [2011].

The topics have been organized as follows.

- (I) Homogeneous structures:
  - (A) Countable
  - (B) Uncountable
- (II) Their Automorphism groups:
  - (A) Algebraic properties
  - (B) Dynamical properties
  - (C) Reconstruction
  - (D) Endomorphisms
- (III) Generalizations of homogeneity
  - (A) $\aleph_0$-categoricity
  - (B) Transitivity conditions
  - (C) Metric geometry
  - (D) Homomorphism homogeneity
  - (E) Continuous or projective Fraïssé theory
  - (F) Hrushovski amalgamation
  - (G) Random Structures
  - (H) Universality

The boundaries of the subject are very fluid. Any countable structure can in principle be constructed by Fraïssé's method—but some structures are most naturally constructed that way, and for a number of others this approach is a useful complement to other points of view.

(I) Homogeneous structures:
  (A) Countable
    (1) *General theory:*
      Barbina and Zambella [2010], Cameron [1990], [1991a], [2007], Cherlin [1992], Fraïssé [1953a], [1953b], [1954], [1986], [2000], Hodges [1993], [1997], Jónsson [1956], [1960], Macpherson [2011], Sauer [2000], Tarzi [2014], Tent and Ziegler [2012], Wielandt [1967b], [1969b], cf. Bonato [2001a], Cameron [2005b], Cherlin [1992], Csima, Harizanov, Miller, and Montalbán [2011], Cusin and Pabion [1970], Delhomme, Pouzet, Sági, and Sauer [2009], Droste and Göbel [1992], [1993], Engeler [1981], Rose and Woodrow [1981], Wielandt [1961/1962], [1969a];
      amalgamation bases:
      Albert and Burris [1988], Bacsich [1975b], [1975a], Bacsich and Hughes [1974], Belyaev [1982], Bergman [1985], [1989], [1987], Bludov and Glass [2011], [2014], Bulman-Fleming and McDowell [1984], Bulman-Fleming and Nasir [2011], Cherlin [1976], Eklof [1974], Fleischer [1990], Glass, Saracino, and Wood [1984], Hall [1975], [1978b], [1978c], [1978a], [1980], [1987], [1988], [1991], Hall and Putcha [1985], Hall and Shoji [2002], Howie [1962], [1985], Imaoka and Hall [1995], Leinen [1989], Magidin [2004], Maier [1986], [1987], Nasir [2011], Renshaw [1986a], [1986b], [1986c], [1991], [2001], Saracino [1983], Ahmed and Ahmed [2009], Sayed Ahmed [2012], Shoji [1987], [1990c], [1990a], [1990b], [1992], [1993], [1994c], [1994b], [1994a], [1996], [2000b], [2000a], [2001b], [2001a], [2007].
    (2) *Constructions:*
      graphs: Erdős and Rényi [1963], Rado [1967], Henson [1971], Cameron [1997d], cf. Nešetřil [1979];
      posets, semi-lattices: Albert and Burris [1986];
      directed graphs: Henson [1972], Pach, Pinsker, Pongrácz, and Szabó [2013];
      unbalanced digraphs: Emms and Evans [2009];
      n-fold linear orders: Braunfeld [2016];
      ultrametric spaces: Bogatyi [2002];
      generalized ultrametric spaces: Braunfeld [2016];
      metrically homogeneous graphs: Cherlin [2011b], Dabrowski and Moss [2000], Moss [1989], [1991], [1992], cf. Bonato [2001b], Howorka [1977];
      Urysohn space: Urysohn [1925], [1927a], [1927b], cf. Hubička and Nešetřil [2008], Katětov [1988];
      generalized polygons: Tent [2011], cf. Tent [2012];
      metric spaces: Urysohn [1925], [1927a], [1927b], Cameron and Tarzi [2008], Hušek [2008], Leiderman, Pestov, Rubin, Solecki, and Uspenskii [2008];
      linear, semi-linear spaces, and Steiner systems: Cameron [1994], Devillers [2002b], [2002c], [2002a], Devillers and Doyen [1998], Thomas [1986c], Treash [1971];
      nilpotent groups and rings: Baudisch [2001], Cherlin, Saracino, and Wood [1993];
      groups and lattices: Abogatma and Truss [2015], Hall [1959], Hickin [1977], Macintyre and Shelah [1976], Thomas [1985], [1986a];
      algebras: Goldstern [2008];
      domains, event structures, causal sets: Boldi, Cardone, and Droste [2002], Droste [1991], [1992], [2005], Droste and Göbel [1990a], [1990b]
      Chu spaces: Droste and Zhang [2007];
      semigroups: Ash [1980];
      finite number of countable models: Tanović [2007], Woodrow [1976a], [1978];
      cofinitary permutation groups: Adeleke [1991], Cameron [1987], [1996a], [1996b], [1997c], [1997b];
      probabilistic Ackerman, Freer, and Patel [2016], Ackerman, Freer, Nešetřil, and Patel [2016], Alon and Spencer [1992], Dolinka and Mašulović [2012b], Erdős and Spencer [1974], cf. Erdős, Kleitman, and Rothschild [1976], Petrov and Vershik [2010], Prömel, Schickinger, and Steger [2001], Prömel and Taraz [2001].
    (3) *Classification:*
      finite or stable: Cherlin and Lachlan [1986], Knight and Lachlan [1987], Lachlan [1984c], [1984a], [1986a], [1985], [1982], [1986b], [1987b], [1997], Lachlan and Shelah [1984], cf. Cherlin [2000];
      finite binary primitive: Cherlin [2016], Dalla volta, Gill, and Spiga [2017], Gill and Spiga [2016], Gill, Hunt, and Spiga [2017], Gill, Liebeck, and Spiga [2017], Wiscons [2016];
      graphs: Gardiner [1976b], Lachlan and Woodrow [1980], Sheehan [1972], [1974], Woodrow [1979], cf. Enomoto [1981], Gardiner [1976c], [1978b];
      partitioned graphs: Rose [2011]; *multipartite edge-colored graphs:* Jenkinson, Seidel, and Truss [2012], Lockett and Truss [2014a]; *3-edge colored complete graph:* Aranda [2015], Cherlin [1999], Lachlan [1985], Tripp [1993];

tournaments: Lachlan [1984b], Cherlin [1988];

coloured partial orders: Schmerl [1979], Sousa and Truss [2008];

tournaments with a vertex coloring Cherlin [1998];

directed graphs: Cherlin [1987], [1993], [1998], Lachlan [1982];

bipartite digraphs with partition: Hamann [2014];

hypergraphs: Lachlan and Tripp [1995],

partial orders with vertex coloring Sousa and Truss [2008];

permutation structures: Cameron [2002/03)];

linear extensions of partial orders: Dolinka and Mašulović [2012a];

ordered graphs Cherlin [2022];

finite or locally finite metrically homogeneous graphs: Cameron [1980], Hedman and Pong [2010], Macpherson [1982] (using Dunwoody [1982]), cf. Gardiner [1973], [1974], [1976a], Ivanov [1983];

infinite metrically homogeneous graphs: Amato, Cherlin, and Macpherson [2020], Cherlin [2011b], [2022];

finite homogeneous 3-hypergraphs: Akhtar and Lachlan [1995], Lachlan and Tripp [1995], Tripp [1993];

homogeneous 3-hypergraphs with one constraint: Akhtar and Lachlan [1995]:

rings: Berline [1980], Berline and Cherlin [1981], [1983], Boffa, Macintyre, and Point [1980], Saracino [1999b], Saracino and Wood [1984b], [1985], [1986], [1987], [1988];

finite or solvable groups: Cherlin and Felgner [1982], [1991], [2000];

unary algebras: Weaver [2000].

(4) *Connections with computer science:*

cores: Bauslaugh [1995], [1996], [1997], Bodirsky [2005], [2007], Bonato and Prałat [2009];

oligomorphic clones: Bodirsky and Chen [2007], Bodirsky and Junker [2010], Pech and Pech [2015];

constraint satisfaction: Bodirsky [2015a], Bodirsky, Chen, Kára, and Oertzen [2007], Bodirsky, Hils, and Martin [2012], Bodirsky, Kára, and Martin [2012], Bodirsky and Nešetřil [2003], [2006], Bodirsky and Kára [2008], [2010], Bodirsky, Pinsker, and Tsankov [2011], [2013]

(5) *Model theoretic properties:*

generalized metric spaces: Conant [2017a], [2017b];

homogeneous 3-edge colored complete graphs with simple theory: Aranda [2015];

simplicity and supersimplicity: Ahlman and Koponen [2015], Aranda [2013], Piro and Kim [2003], Koponen [2017], [2016], Kruckman [2019], Palacín [2017];

independence relations: Conant [2016];

no binary homogeneous pseudo-plane: Thomas [1998b];

finite axiomatizability: Lippel [2001], [2005], Macpherson [1991a];

definable groups: Macpherson [1991b];

strongly determined types: Ivanov [2006a].

(6) *Finite approximation and 0-1 laws:* Blass and Harary [1979].

(7) *Homogenizability:*

relational complexity of finite structures: Cherlin [2016], Cherlin, Martin, and Saracino [1996], Hartman, Hubička, and Nešetřil [2015], cf. Kaluzhnin and Klin [1972], [1976], Saracino [1999a], [2000], Wiscons [2016], Xu, Giudici, Li, and Praeger [2011];

relational complexity of infinite structures: Covington [1989], [1990], Covington and Thomas [1999], Hartman, Hubička, and Nešetřil [2013], cf. Neumann [1993].

(8) Applications of Ramsey theory:

reducts: Bennett [1993], Junker and Ziegler [2008], Bodirsky and Pinsker [2011], [2014], Bodirsky, Chen, and Pinsker [2010], Bodirsky, Pinsker, and Pongrácz [2015], Linman and Pinsker [2015], Lu [2007], Pach, Pinsker, Pluhár, Pongrácz, and Szabó [2014], Thomas [1991], [1996b], cf. Cameron et al. [2013], Huntington [1935], Junker and Ziegler [2008];

decidability of positive primitive definability: Bodirsky, Pinsker, and Tsankov [2011];

analysis: Argyros and Todorčević [2005].

(9) *"Going forth"* McLeish [1994], [1997], Villemaire [2015].

(B) *Uncountable:*

universal locally finite groups: Hickin [1978]; *n-cardinal spectra* Ackerman [2012]

(II) Their Automorphism groups:
    (A) Algebraic properties
        (1) *Normal subgroups and quotients:*
           simplicity: Evans, Hubička, Konečný, and Li [2019b], Macpherson and Tent [2011], Truss [1989b], [1991], [2003];
           O'Nan-Scott: Macpherson and Praeger [1994];
           symmetric group Alperin, Covington, and Macpherson [1996], Baer [1934], Onofri [1927], [1928], [1929], cf. Bertram [1971], [1972], [1973], Bowler and Forster [2009], Droste and Göbel [1981], Shelah and Truss [1999];
           m-edge colored random graph: Cameron and Tarzi [2007]:
           linear or semilinear orders: Ball and Droste [1985], Bludov, Droste, and Glass [2011], Bludov and Glass [2012], Bludov, Giraudet, Glass, and Sabbagh [2008], Droste, Holland, and Macpherson [1991], Droste, Kuske, and Truss [1999], Giraudet and Truss [1994], [2003];
           partial orders: Glass, McCleary, and Rubin [1993];
           cycle-free partial orders: Droste, Truss, and Warren [1999], cf. Truss [1996a];
           trees: Möller and Vonk [2012];
           distributive lattices: Droste and Macpherson [2000];
           rational topology: Truss [1997];
           Urysohn space: Tent and Ziegler [2013a], [2013b];
           linear groups: Rosenberg [1958];
           free amalgamation classes: Macpherson and Tent [2011];
           homeomorphisms: Anderson [1958];
           multiply transitive actions: Cameron [1981a].
        (2) *Maximal subgroups:*
           symmetric group Ball [1966], [1968], Baumgartner, Shelah, and Thomas [1993], Brazil et al. [1994], Covington, Macpherson, and Mekler [1996], Covington and Mekler [1993], Macpherson and Praeger [1990], Richman [1967], cf. Bergman and Shelah [2006];
        (3) *Small index property:*
           general theory: Evans [1987b], Lascar [1991], Truss [1989c];
           symmetric group Dixon, Neumann, and Thomas [1986], Gaughan [1964], Schreier and Ulam [1933], Shelah and Thomas [1989b], Thomas [1993];
           the random graph: Cameron [2005a], Hodges, Hodkinson, Lascar, and Shelah [1993], Hrushovski [1992a];
           Henson graphs: Herwig [1995a], Solecki [2009];
           linear orders: Chicot and Truss [2005], Droste and Truss [1991], Glass and McCleary [1993];
           trees: Möller [1991], Truss [2001];
           linear groups: Evans [1986b], [1991];
           relatively free groups: Bryant and Evans [1997];
           $\aleph_0$-*categorical structures:* Herwig [1998], Hodges, Hodkinson, Lascar, and Shelah [1993];
           saturated structures: Lascar [1993], [2002], Melles and Shelah [1994b], cf. Lascar [1992], [1994], Lascar and Shelah [1993].
        (4) *Cofinality:*
           Droste and Göbel [2002], [2005], Droste, Holland, and Ulbrich [2008], Droste and Truss [2009], [2011], Gourion [1992], Macpherson and Neumann [1990], Mildenberger and Shelah [2011], Sharp and Thomas [1994], [1995a], [1995b], Shelah and Thomas [1997], Thomas [1996a], [1997], [1998a].
        (5) *Bergman property:*
           Cornulier [2006];
           symmetric group Bergman [2006];
           automorphisms of linear orders: Droste and Holland [2005], Morel [1965].
        (6) *Representing words:* Dougherty and Mycielski [1999], Droste and Truss [2006], Lyndon [1990], Mycielski [1987].
        (7) *Free subgroups:* Gartside and Knight [2003].
        (8) *Embedding theorems:*
           Adeleke [1988], Bhattacharjee and Macpherson [2003], [2005], Bilge [2012], Bilge and Jaligot [2012], Bonato, Delić, and Dolinka [2010], Hasson, Kojman, and Onshuus [2011], Jaligot [2007], Jaligot and Khelif [2004], Macpherson [1986a], [1996], Macpherson and Woodrow [1992], Mekler [1986], Melleray [2006], Neumann [1985a], Niemiec [2009], [2013], Truss [1986], Uspenskij [1990], cf. Doucha [2015b], Huhunaišvili [1955], Mbombo and Pestov [2012], Mekler, Schipperus, Shelah, and Truss [1993], Melleray [2007], Melles and Shelah [1994a], Shelah and Thomas [1988].

(9) *Regular actions:*
Cameron [2000a], Cameron and Johnson [1987], Cameron and Vershik [2006], Doucha [2015a].

(10) *Orbit growth or profile:*
Applegate and Cameron [2009], Bundy and Hart [2009], Cameron [1978], [1998b], [1982], [1991b], [1997a], [1998b], [2000b], [2000c], Cameron and Saxl [1983], Cameron and Thomas [1989], Éndryus and Kach [2014], Haehl and Rangamani [2015], Macpherson [1983], [1985], [1997], [1987], Merola [2001], [2003], Miller [1992], Mnukhin and Siemons [2004], Nakashima [2009], Pouzet [1981a], [2008], [1978b], Robinson [1967], Smith [2010], Vatter [2011], [2015], Waszkiewicz [1973], cf. Prömel [1987];

(11) *Cycle structure:*
primitive groups (esp. Jordan groups) Macpherson and Praeger [1995] *graphs:* Lovell and Truss [2011], Truss [1985], cf. Truss [1989a];
finitary elements: Bilge and Melleray [2013], Ivanov [2002];
Parker vectors: Gewurz and Merola [2001], [2003], [2004].

(12) *Isomorphisms up to language:* Cameron and Tarzi [2007], Coulson [2019];

(13) *First order theories:*
Giraudet, Glass, and Truss [2002], Glass [1981a], Glass, Gurevich, Holland, and Jambu-Giraudet [1981], Glass, McCleary, and Rubin [1993], Knipe [2009], Rubin and Shelah [1980].

(B) Dynamical properties
    (1) *General theory:*
Auslander [1988], Ellis [1969].

    (2) *Universal minimal flow:*
Bartošová [2013], Ellis [1960], [1960], Kechris, Pestov, and Todorčević [2003], Kechris and Sokić [2012], Melleray, Nguyen Van Thé, and Tsankov [2016], Uspenskij [2000].

    (3) *Extreme amenability (and relation to Ramsey theory):*
Mitchell [1966], Uspenskij [2009];
concentration of measure Gromov and Milman [1983], Ledoux [2001], Pestov [2002b];
Ramsey theory and dynamics: Farah and Solecki [2008], Kechris, Pestov, and Todorcević [2005], Moore [2013], Müller and Pongrácz [2015], Pestov [1998b], [2001], [2002c], [2002a], [2006], Tsankov [2014]
cf. Vuksanovic [2006];
oligomorphic groups: Glasner [2002], Glasner and Weiss [2002], [2003], Pestov [1998a];
homeomorphism groups: Glasner and Gutman [2012], [2013];
operator algebras: Giordano and Pestov [2002], [2007], cf. Glasner [2012];
metrizable universal flows: Yaacov, Melleray, and Tsankov [2017], Melleray, Nguyen Van Thé, and Tsankov [2016];
$\aleph_0$-*categorical linear orders:* Dorais, Gubkin, McDonald, and Rivera [2013]; L^0 Farah and Solecki [2008];
generic abelian isometry groups: Melleray and Tsankov [2013];
precompact expansions: Nguyen Van Thé [2013].

    (4) *Ramsey theory:*
Graham, Rothschild, and Spencer [1980], [1990], [2013], Hubička [2020], Nešetřil [1995], [2005], Nešetřil and Mendez [2012], Nuyen Van Thé [2013], Nguyen Van Thé [2015], Solecki [2013a], cf. Todorčević [2010];
Ramsey degree in general: Fouché [1998], [1999b], [2012];
monotone classes: Nešetřil [2005];
canonical partitions: Laflamme, Sauer, and Vuksanovic [2006], Larson [2005];
convex equivalence relations: Sokić [2013];
homogeneous graphs, generalizations: Abramson and Harrington [1978], Bodirsky [2014], Deuber [1975c], Folkman [1970], Henson [1973], Nešetřil [1989]
Nešetřil and Rödl [1975a], [1975b], [1975c], [1976], [1977a], [1977b], [1978], [1979], [1981], [1982], [1983], [1989], [1990a], [1990b], Pouzet and Sauer [1996], Prömel and Voigt [1981], Sauer [1998], [2001],
cf. Rödl, Sauer, and Zhu [1995], Sauer [1995], Solecki [2012], Spencer [1981], [1983];
bipartite graphs: Fouché, Pretorius, and Swanepoel [2005];
n-colorable graphs: Nguyen Van Thé [2010a];
bowtie-free graphs: Hubička and Nešetřil [2018];
trees: Deuber [1975b], [1975a], Deuber, Prömel, and Voigt [1982], Fouché [1999a], Milliken [1975], [1979], [1981], Solecki [2013b];
local order: Laflamme, Nguyen Van Thé, and Sauer [2010b];
directed graphs: Jasiński et al. [2013];
partial orders: Fouché [1997], [2008], Nešetřil and Rödl [1984], Nešetřil and Rödl [2018], Paoli, Trotter, and Walker [1985], Sokić [2012a], [2012b], cf. Hubička and Nešetřil [2005];

boron trees: Jasiński [2011], [2013];

metric spaces: Prisco [2006], Erdős et al. [1975a], Erdős, Graham, Montgomery, Roth-schild, Spencer, and Straus [1975b], Jasiński [2011], Nešetřil [2006], [2007], Nguyen Van Thé [2009], Nguyen Van Thé [2010b];

matroids: Nešetřil, Poljak, and Turzik [1981];

vector space: Laflamme, Nguyen Van Thé, Pouzet, and Sauer [2011], Graham, Leeb, and Rothschild [1972a], [1972b], Spencer [1979];

affine space: Nešetřil, Prömel, Rödl, and Voight [1982];

inner product spaces: Jasiński [2011];

Steiner systems: Bhat, Nešetřil, Reiher, and Rödl [2018]

cubes: Nešetřil, Prömel, Rödl, and Voight [1984], [1985], Prömel [1989], Solecki [2010];

indivisibility: Delhomme, Laflamme, Pouzet, and Sauer [2008], El-Zahar and Sauer [1989], [1991], [1993], [1993], [1994], [2005], Erdős, Hajnal, and Pósa [1975], Komjáth and Rödl [1986], Lopez-Abad and Nguyen Van Thé [2008], Melleray [2008], Nguyen Van Thé [2008], Nguyen Van Thé and Sauer [2009], Nguyen Van Thé and Sauer [2010], Pouzet [1981b], Sauer [1993], [2003], [2014],

cf. Erdős and Hajnal [1970], Imrich, Klavžar, and Trofimov [2007], Imrich, Smith, Tucker, and Watkins [2015], Sauer [2001], [2002], [2006], Sauer, Woodrow, and Rödl [1997], Watkins and Zhou [2007];

pigeonhole property: Bonato, Cameron, and Delić [2000], Bonato and Delić [1999];

inexhaustible structures:
Bonato and Delić [2004], Böröczky, Sauer, and Zhu [1993]; *affine and projective space:* Deuber and Voigt [1982];

cf. Graham, Rothschild, and Spencer [1980], [1990], [2013]; cf. Laflamme, Nguyen Van Thé, and Sauer [2010a].

(5) *Amenability and unique ergodicity:*
equivalence relations: Ivanov [2015], Pawliuk and Sokič [2020]. *graphs and digraphs:* Angel, Kechris, and Lyons [2014], Zucker [2014].

(6) *EPPA (Hrushovski property), ample generics, generic automorphisms:*
Conant [2015], [2019], Evans, Hubička, Konečný, and Nešetřil [2020], Herwig [1995a], Herwig and Lascar [2000], Hodkinson [2002], Hodkinson and Otto [2003], Ivanov [1999b], [2005], [2006b], [2011], Kechris and Rosendal [2007], Kuske and Truss [2001], Lockett and Truss [2012], Macpherson and Thomas [2005], Rosendal [2009b], [2011a], [2011b], cf. Pestov [2008], Pestov and Uspenskij [2006], Slutsky [2012], Solecki [2005], Truss [1992], Vershik [2008].

(7) *Strong non-local compactness:* Malicki [2008].

(8) *Measures on models:* Albert [1994].

(C) *Reconstruction (see also small index property):*
Barbina [2004], [2007a], [2007b], Ami and Rubin [2010], Goldshtein and Rubin [1995], Kubiś and Rubin [2010], Leiderman and Rubin [1999], Rosendal [2009a], Rosendal and Solecki [2007], Rubin [1980a], [1980b], [1989b], [1989a], [1993], [1994], [1996], [2011], Rubin and Rybicki [2012], Slutsky [2013], Truss [1996b], [2009].

(D) *Endomorphisms:*
maximal subgroups: McPhee [2012];
random graph: Delić and Dolinka [2004], Dolinka [2007];
partial orders: Mašulović [2008];
embedding theorem Dolinka and Mašulović [2012c];
Bergman property: Dolinka [2014].

(III) Generalizations of homogeneity

    (A) $\aleph_0$-*categoricity:*

        general theory: Engeler [1961], Ryll-Nardzewski [1959], Svenonius [1959], cf. Caramello [2014], Cherlin [1986], Clark and Krauss [1977], Evans [1994], Grzegorczyk [1968], [1970], Hauschild [1967], Schulz [2007], Weaver [1988], Weaver and Lippel [1998], Cameron [1990], [1995], [1999], [2007], [2009], Dixon and Mortimer [1996], Evans [1987a], Hodges [1989];

        constructions: Ash [1971], Casanovas, Peláez, and Ziegler [2011], Ehrenfeucht [1972], Glassmire [1971], cf. Ivanov [2012a], Thomas [1989], Peretyatkin [1973], Woodrow [1976b];

        total categoricity: Ahlbrandt [1984], [1987], Ahlbrandt and Ziegler [1986], [1991], [1992], Baur, Cherlin, and Macintyre [1979], Cherlin [1984], Cherlin, Harrington, and Lachlan [1985], Hodges [1994], Hrushovski [1989], Schmerl [1990], Tent [1996], Zilber [1980a], [1980b], [1981], [1984a], [1984b],

        cf. Hodges, Hodkinson, and Macpherson [1990], Ivanov [1995], [2010a], Ivanov and Majcher [2007], Koshan [1998], Vassiliev [1999];

        covers: Chowdhury, Hart, and Sokolovič [2002], Evans [1996], [1997a], [1997c], [1997b], Evans and Gray [1998], Evans and Hewitt [1990], [2006], Evans and Hrushovski [1993], Evans, Ivanov, and Macpherson [1997], Evans and Pastori [2011], Evans and Rashwan [2002], Hodges and Pillay [1994], Ivanov [1994], [1999a], Ivanov and Macpherson [1999], Pastori [2009], [2011], [2012];

        graphs: Shishmarev [1992], Wheeler [1978], [1979];

        colored linear orders: Mwesigye and Truss [2010], [2011], Rosenstein [1969], [1982], cf. Creed and Truss [2000], [2001], Glass [1981b], Herwig et al. [2000], Kulpeshov [2006], [2013], Kulpeshov and Macpherson [2005];

        Boolean algebras with ideals: Alaev [2008], Pal'chunov [1987], cf. Heindorf [1992];

        multitrees ("reticles") Puninskii [1988], Puninskii [1990];

        partial orders: Pouzet [1978a], Schmerl [1984];

        distributive lattices: Schmerl [1983];

        rings: Baldwin and Rose [1977], Cherlin [1980a], [1980b], Macintyre and Rosenstein [1976], Rose [1980], Rosenstein [1972], [1973];

        groups: Apps [1982], [1983b], [1985], [1983a], [1985], Archer and Macpherson [1997], Baur, Cherlin, and Macintyre [1979], Cherlin and Rosenstein [1978], Felgner [1977], [1978], Ivanov [2010b], [2012b], Ivanov and Majcher [2006], Macpherson [1988], Rose [1980], Rosenstein [1972], [1973], Saracino and Wood [1979], [1982], Wilson [1982] cf. Ivanov and Majcher [2009];

        quasi-groups: Shishmarev [1979];

        bilinear maps: Baudisch [2000];

        quasi-varieties: Baldwin and Lachlan [1973], Paljutin [1973], [1975], [1979], [1980b], [1980a];

        e.c. structures for some universal Horn classes: Albert [1987];

        automorphism groups: Barbina [2004], Tsankov [2012];

        Keisler measures: Ensley [1996];

        model companions: Saracino [1973];

        simplicity: Palacín [2012], Palacin and Wagner [2013];

        orbit growth: Paljutin [1974], cf. Bollobás and Thomason [1997];

        computable models, decidability: Khoussainov and Montalbán [2010], Morozov [1989], Puzarenko [2012], Schmerl [1976], [1977], [1978], [1981], Stukachev [2004];

        cf. Peretyatkin [1985], Richter [1981].

        (1) *Coordinatized by indiscernible sets:* Lachlan [1987c]

        (2) *Tree decomposable:*
            Lachlan [1990a], [1990b], [1991], [1992], cf. Paljutin [1971].

        (3) *Smooth approximation:*
            Cherlin [1997], Cherlin and Hrushovski [2003], Hrushovski [1993a], Kantor, Liebeck, and Macpherson [1989]

        (4) *Simple theories:* Aranda [2013], Evans and Wagner [2000].

    (B) Transitivity conditions

        (1) *Setwise homogeneous:*
            in general: Macpherson [1986b], cf. Lockett and Macpherson [2013];
            graphs: Droste, Giraudet, Macpherson, and Sauer [1994], Droste, Giraudet, and Macpherson [1997], Gray, Macpherson, Praeger, and Royle [2012];
            directed graphs: Gray, Macpherson, Praeger, and Royle [2012].

        (2) *k-homogeneity and variants:*
            Brown [1959], Cameron [1974], [1976], [1977], [1978], [1981b], [1983a], [1983b], Droste [1980], [1989], Higman [1977], Hughes [1964], Kantor [1968], [1972], Kientega [2006], Macpherson [1986b], Maroli [1992], Neumann [1988], Truss [2007], Wielandt [1967a], Yoshizawa [2002], cf. Hajnal [1990], Rosenstein [1968], Shelah and Thomas [1989a];
            graphs: Fan, Leemans, Li, and Pan [2013], Gol'fand and Klin [1978], Gardiner [1979], Livingstone and Wagner [1965], cf. Dejter [2009], [2010], [2013], Gray [2009], Isaksen,

Jankowski, and Proctor [2007], Li, Seress, and Song [2015], Ronse [1978], Shelah and Soukup [1993], Yan and Fan [2008];

linear orders: Droste and Shelah [2002];

circular orders: Campero-Arena and Truss [2009], Giraudet and Holland [2002], Kulpeshov and Macpherson [2005];

partial orders: Droste [1985], [1987], Droste and Macpherson [1991], Droste, Macpherson, and Mekler [2002], Saracino and Wood [1993];

cycle-free partial orders: Creed, Truss, and Warren [1999], Gray and Truss [2009], Truss [1998/99], Warren [1997], cf. Möller [1992a], [1992b];

linear spaces: Devillers [2000];

affine or projective space: Thomas [1986b], [1988], cf. Thomas [1993];

real measurement: Alper [1985], [1987];

(3) *Canonical expansions:* Thomas [1994]

(4) *1-homogeneity in the sense of Myers:*
Gardiner and McAvaney [1983], McAvaney [2002], Myers [1984], [1985].

(5) *Distance transitive graphs:*
finite: Bon [2003], [2007], Cameron [1979], [1980], Gardiner [1978a], Ivanov [1994];
infinite: Cameron [1998a], Macpherson [1982], Möller [1994], cf. Möller [1995];
imprimitive: Alfuraidan and Hall [2006], Smith [1971];
distance transitive with more than one end: Hamann and Pott [2012], using Dunwoody and Krön [2015];
distance regular: Brouwer, Cohen, and Neumaier [1989].

(6) *Highly arc-transitive digraphs:*
Amato [2010], Amato and Truss [2011b], [2012], Cameron, Praeger, and Wormald [1993], Chen [2014], DeVos, Mohar, and Sámal [2015], Malnič, Marušič, Seifter, and Zgrablič [2002], Mainič et al. [2005], Möller [2002a], Neumann [2013], Praeger [1989], cf. Devillers, Jin, Li, and Praeger [2013], Giudici, Li, and Praeger [2004], [2005], [2007], Jin, Devillers, Li, and Praeger [2015], Möller [2002b].

(7) *Descendant-homogeneous digraphs:*
Amato, Evans, and Truss [2012], Amato and Truss [2011a].

(8) *Homogeneous with respect to connected induced subgraphs or digraphs:*
Gray and Möller [2011], Hamann [2017], [2012], Hamann and Hundertmark [2013], Hamann and Pott [2012], cf. Dunwoody and Krön [2015], Krön and Möller [2008a], [2008b].

(9) *Orbit-homogeneity:* Cameron and Dent [2006].

(10) *Jordan groups:*
survey: Bhattacharjee et al. [1997], Macpherson [1994]; Adeleke [1994], [1995], [1996], [2013], Adeleke and Macpherson [1996], Adeleke and Neumann [1996b], [1996a], [1998], Bhattacharjee and Macpherson [2006], Evans [1986a], Hickin [1992], Hrushovski [1992c], Hyttinen [2005], Johnson [2002], Kantor [1985], McDonough [1972], Neumann [1985b], [1996]

(11) *Universal transversal property:*
Araújo and Cameron [2016].

(12) *fine partition:* Hodkinson and Macpherson [1988], Lachlan [1987a].

(13) *Extension properties:*
graphs: Ananchuen [2001], Ananchuen and Caccetta [1992], [1993b], [1993a], [1994], [1995], [2006], Baker, Bonato, and Brown [2003], Baker, Bonato, Brown, and Szönyi [2008], Baker, Bonato, McKay, and [2009], Blass, Exoo, and Harary [1981], Blass and Rossman [2005], Bonato [2009], Bonato and Cameron [2001b], [2001a], [2000], [2006], Bonato and Costea [2012], Bonato, Holzmann, and Kharaghani [2001], Cameron and Stark [2002], Dabrowski and Moss [2000], Erdős, Hechler, and Kainen [1978], Erdős and Pach [1985], Exoo [1981], Exoo and Harary [1980], [1983], Fagin [1976], Rosen, Shelah, and Weinstein [1997],
cf. Fon-Der-Flass [2002], Trofimov [2001];
triangle free graphs: Alspach, Chen, and Heinrich [1991], Even-Zohar and Linial [2015], Larman [1978], Pach [1981], Pach and Surányi [1985], cf. Alspach and Rosenfeld [1977];
tournaments: Graham and Spencer [1971].

(14) *Association schemes:* Alejandro, Bailey, and Cameron [2003].

(C) *Metric geometry:*
Birkhoff [1941], Bogatyi [2002], Busemann [1941b], [1941a], [1942], [1943], [1944], [1955], [1959], Busemann and Phadke [1987], Dantzig and Waerden [1928], Freudenthal [1956], [1957], Nagano [1959b], [1959a], [1959/1960], Tits [1952a], [1953], [1955], [1957], Wang [1951], [1952], cf. Tits [1950], [1952b].

(D) *Homomorphism-homogeneity:*
Cameron and Lockett [2010], Cameron and Nešetřil [2006], Dolinka and Mašulović [2011], Dolinka and Jungábel [2012], Hartman, Hubička, and Mašulović [2014], Ilić, Mašulović,

and Rajković [2008], [2012], Jungábel and Mašulović [2013], Lockett [2015], Lockett and Truss [2014b], Mašulović [2007], [2008/09], [2013a], [2013b], [2015b], Mašulović, Nenadov, and Škorić [2010], Mašulović, Nenadov, and škorić [2011], Mašulović and Pech [2011], Rusinov and Schweitzer [2010],
cf. Pech and Pech [2015].

(E) *Continuous and projective Fraïssé theory:*
continuous Fraïssé constructions: Avilés et al. [2011], Bartošová and Kwiatkowska [2015], Bell and Marciszewski [2006], Ben Yaacov [2015], Camerlo [2010], Garbulińska and Kubiś [2011], Irwin and Solecki [2004], [2006], Kubiś [2014], Kubiś and Solecki [2013], Schoeretsanitis [2007], Usvyatsov [2008],
cf. Argyros and Benyamini [1987], Džamonja [1998], [2006], Kubiś [2015], Mašulović [2015a], Shabat and Zarichnyi [2004];
generic automorphisms, continuous case: Yaacov, Berenstein, and Melleray [2013], Guirardel and Ivanov [2010], Hodkinson [1992], Kaïchouh and Maître [2015], Kwiatkowska [2012], [2014], Ribes and Zalesski [1993];
Ramsey theory: Kaïchouh [2015];
linear metric rigidity: Melleray, Petrov, and Vershik [2007], [2008];
background: I. Ben Yaacov et al. [2008];
neostability: Conant and Terry [2016].

(F) *Hrushovski amalgamation:*
Anbo and Ikeda [2010], Aref'ev [1995], Baldwin [1994], [1995], [2002], [2003], Baldwin and Holland [2000], [2001], [2003], [2004], Baldwin and Itai [1994], Baldwin and Shelah [1998], Baudisch [2009], [1995], Baudisch, Hils, Martin-Pizarro, and Wagner [2009], Baudisch, Martin-Pizarro, and Ziegler [2006], [2007a], [2007b], Baudisch and Pillay [2000], Ealy and Onshuus [2014], Evans [1997d], [2001], [2002], [2004], [2005], Evans and Ferreira [2011], [2012], Evans, Ghadernezhad, and Tent [2016], Evans and Pantano [2002], (B. Poizat) [1989], Hasson [2007], [2008], Hasson and Hils [2006], Hasson and Hrushovski [2007], Herwig [1991], [1995b], Holland [1995], [1997], [1999], Hrushovski [1988], [1992b], [1993b], [1998], Ikeda [2001], [2002], [2005], [2012], Ikeda and Kikyo [2012], Ikeda, Kikyo, and Tsuboi [2009], Kueker and Laskowski [1992], Pillay and Tsuboi [1997], Poizat [1999], [2001], [2002], Pourmahdian [2002], [2003a], [2003b], [2004], Pourmahdian and Wagner [2006], Sudoplatov [2005], [2006], [2007b], [2007a], [2015], Tent [2000], Tsuboi [2001b], [2001a], Verbovsky [2006], Verbovsky and Yoneda [2003], Wagner [1994], [2009], Ziegler [2008], [2013], Zilber [2003], [2004], [2005], [2006];
relation to random structures: Baldwin [1997], [2000], [2006], Baldwin and Mazzucco [2006], Baldwin and Shelah [1997], Baldwin and Shi [1996], Beyarslan [2006], [2010], Beyarslan and Hrushovski [2012], Debonis and Nesin [1998], Dolan and Lynch [1993], Lynch [1980], [1985], [1990], [1992], [1994], [1997], [1998], [2005].

(G) *Random Structures:*
Albert and Frieze [1989], Bohman [2009], Bohman et al. [2007], Bohman and Keevash [2010], [2013], Bollobás [1985], Bonato and Janssen [2011], Bonato, Janssen, and Wang [2009], Brooke-Taylor and Testa [2013], Cameron [1997e], Charbit and Scott [2006], Compton [1985], [1987a], [1987b], Compton, Henson, and Shelah [1987], Compton [1988], [1989b], [1989a], Droste and Göbel [2011], Droste and Kuske [2003], Erdős [1947], [1966], Erdős and Rényi [1963], Fagin [1976], [1993], Glebskii et al. [1969], Grandjean [1983], Laskowski [2007], Shelah and Spencer [1988], Spencer [1978], [1985], [1987], [1995], [1997], Spencer and John [2001], Tarzi [2014], Vershik [2004], Winkler [1985a], [1985c], [1985b], [1989], [1993], cf. Kolaitis, Prömel, and Rothschild [1985], [1987];

(H) Theory of relations (general structures) Macpherson, Pouzet, and Woodrow [1992].

(I) Universality
   (1) *Countable case:*
      graphs: Aref'ev, Baldwin, and Mazzucco [1999], Bollobás and Thomason [1981], Bonato [2002], [2003], Cherlin and Komjáth [1994], Cherlin and Shelah [2007], Cherlin, Shelah, and Shi [1999], Cherlin and Shi [1996], [2001], Cherlin, Shi, and Tallgren [1997], Cherlin and Tallgren [2007], Cherlin and Thomas [2002], füredi and Komjáth [1997b], [1997a], Komjáth [1999], Komjáth, Mekler, and Pach [1988], Komjáth and Pach [1984], [1991], Moss [1989], Nurtazin [2007], Rado [1964], [1967], cf. Broere, Heidema, and Mihók [2013], Komjáth [2000], Pach [1975];
      width-2 orders: Bonato and Delić [1997/98];
      partial orders: Hubička and Nešetřil [2011];
      rings: Saracino [1987], Saracino and Wood [1984a];
      permutation patterns: Atkinson, Murphy, and Ruškuc [2005], Huczynska and Ruškuc [2008], Bóna [2012], Huczynska and Ruškuc [2008], cf. MaT-EPM;

(2) *Uncountable case:*

structures with n-dimensional amalgamation: Mekler [1990];

graphs: Komjáth and Pach [1991], Džamonja and Shelah [2003], Komjáth and Pach [1991], Shelah [1973], [1984], [1990], [1993], [2012], Thompson [2010];

groups: Göbel, Shelah, and Wallutis [2003], Grossberg and Shelah [1983], Hickin [1978], Shelah [1996], [1997], [2001], Shelah and Strüngmann [2003], [2011];

topological groups: Shkarin [1999];

linear orders: Kojman and Shelah [1992a], Moore [2009], Shelah [1980];

partial orders: Johnston [1956];

cardinal spectra Ackerman [2012];

bipartite graphs: Goldstern, Grossberg, and Kojman [1996];

topological spaces: Mayer, Nikiel, and Oversteegen [1992], Mayer and Tymchatyn [1990], Todorčevič [1995];

metric space: Katětov [1988];

Banach spaces: Brech and Koszmider [2012], [2013], [2016], Koszmider [2002], [2015], Shelah and Usvyatsov [2006], Szlenk [1968];

von Neumann algebras: Osawa [2004];

using club guessing Džamonja [2005];

universal models: Džamonja [2011], Džamonja and Shelah [2004], [2006], Kojman and Shelah [1992b].

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