

CURRICULUM VITAE

PERSONAL DATA

- *First Name:* ALIREZA
- *Last Name:* MOGHADDAMFAR
- *Date of Birth:* 01/12/1969
- *Nationality:* IRANIAN
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<http://scholar.google.com/citations?hl=en&user=Xflsc-8AAAAJ>
<http://www.scopus.com/authid/detail.uri?authorId=9273738500>
<http://genealogy.math.ndsu.nodak.edu/id.php?id=116630>
<http://jrnl2015.elmjo.ir/cgi-bin/nph-v2s2-fs.cgi/en/00/http/www.ams.org/mathscinet/search/author.html=3fmrauthid=3d673987>
- *Citations:* GOOGLE SCHOLAR: **1312**
THE MR CITATION DATABASE: **417** (by **163** authors)
SCOPUS: **534** (by **256** documents)
- *h-index:* **17** (Google Scholar)
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- *i10-index:* **22** (Google Scholar)

ADDRESS

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ACADEMIC BACKGROUND

- *Iran University of Science and Technology, IRAN; 1998–2001; Ph.D. in Finite Group Theory.*
Thesis' topic: *A Characterization of Finite Groups by Their Elements Orders,*
Supervisor: Prof. M. R. DARAFSHEH.
- *Iran University of Science and Technology, IRAN; 1993–1996; M. Sc. in Finite Group Theory.*
Projects' title: *The Classification of Groups With the Small Squaring Property on 3-Sets,*
Supervisor: Dr. A. HASSANI.
- *Birjand University, IRAN; 1988–1993; B. Sc. in Pure Mathematics.*

EMPLOYMENT

- *Assistant Professor, Department of Mathematics, K. N. Toosi University of Technology, 2003 – 2008.*

- Associate Professor, Department of Mathematics, K. N. Toosi University of Technology, 2008 – 2014.
- Full Professor, Faculty of Mathematics, K. N. Toosi University of Technology, 2014 – Up to now.

HONORS

- First grade student in Ph.D, February 2001.
- Selected by International Mathematical Union (IMU) for a grant to attendance in International Congress of Mathematicians (ICM), August 20–28 (2002), in China-Beijing.
- Selected by Suzhou University for a grant to attendance in International Conference on Algebra (A Satellite Conference of ICM 2002), August 29- September 2 (2002), China-Suzhou.
- Distinguished Researcher of K. N. Toosi University of Technology, December 2005.
- Distinguished Lecturer of K. N. Toosi University of Technology, May 2009.
- Head of the Department of Mathematics, June 2009-January 2011.
- Invited speaker at The 44th Annual Iranian Mathematics Conference, Ferdowsi University of Mashhad, 27–30 August 2013.
- Invited speaker at Third Biennial International Group Theory Conference, Ferdowsi University of Mashhad, Mashhad-Iran, 28–31 January 2015.
- Invited speaker at International Workshop on Quantitative Properties of Groups and Related Topics (IWQPG), Chongqing University of Arts and Sciences, Yongchuan, Chongqing, China, 16–19 May, 2015.
- Invited speaker at Seminar on Group Theory, School of Mathematics and Statistics, Southwest University, Chongqing, China, 20–23 May, 2015.
- I spent my sabbatical leave in USA at Kent State University, during 1 November 2016 until 1 September 2017.
- Invited speaker at International Workshop on Groups, Representations and Related Topics (IWGRR), Chongqing University of Arts and Sciences, Yongchuan, Chongqing, China, 17–20 May, 2018.
- Invited speaker at Third Conference on Computational Algebra, Computational Number Theory and Applications, University of Kashan, 12–14 December 2018.

HONORARY ACTIVITIES

- Reviewer of Zentralblatt MATH (zbMATH), Reviewer ID: 11687, (<http://www.zentralblatt-math.org/zmath/en/>)
- Reviewer of American Mathematical Society (AMS), Reviewer Number: 053458, (<https://mathscinet.ams.org/mathscinet/index.html>)
- Editor of International Journal of Group Theory (IJGT). (<http://uijs.ui.ac.ir/ijgt/>)

MEMBERSHIP OF SCIENTIFIC SOCIETIES

American Mathematical Society (MR Author ID: 673987)

RESEARCH INTERESTS

- *Group Theory, Especially Arithmetical Properties of Finite Groups.*
- *Linear Algebra, Especially Evaluating Determinants of Matrices with Recursive Entries.*
- *Graph Theory, Especially Graphs Associated With Algebraic Structures.*
- *Discrete Mathematics, Especially Double Counting and Finding Some Relations on Pascal Triangle.*
- *Number Theory, Especially Determinant Representations of Sequences.*

INTERNATIONAL CONFERENCES

- *International Congress of Mathematicians 2002*, Beijing, China, August 20–28, **2002**.
- *International Conference on Algebra*, Suzhou, China, August 29 - September 2, **2002**.
- *Eighteenth Brazilian Algebra School*, Campinas, Brazil, July 19–23, **2004**.
- *A Conference Groups & Group Rings XI*, Bedlewo (near Poznan), Poland, June 4–11, **2005**.
- *The 6th International Pure Mathematics Conference 2005 on Algebra, Analysis, Geometry and Mechanics*, Islamabad, Pakistan, August 20–22, **2005**.
- *Fourteenth Ramanujan Symposium-International Conference on Noncommutative Rings, Group Rings, Diagram Algebras, and Applications*, Ramanujan Institute for Advanced study in Mathematics, University of Madras, India, December 18–22, **2006**.
- *The Second International Congress in Algebra and Combinatorics*, Beijing-Xi'an, China, July 6–10, **2007**.
- *77th Workshop on General Algebra, 24th Conference for Young Algebraists*, University of Potsdam, Institute of Mathematics, Potsdam, Germany, March 20–22, **2009**.
- *The International Conference on Algebra 2010, Advances in Algebraic Structures (ICA 2010)*, Gadjah-Mada University, Yogyakarta-Indonesia, 7–10 October, **2010**.
- *Third Biennial International Group Theory Conference*, Ferdowsi University of Mashhad, Mashhad, Iran, 28–31 January, **2015**.
- *International Workshop on Quantitative Properties of Groups and Related Topics (IWQPG)*, Chongqing University of Arts and Sciences, Yongchuan, Chongqing, China, 16–19 May, **2015**.
- *Seminar on Group Theory*, School of Mathematics and Statistics, Southwest University, Chongqing, China, 20–23 May, **2015**.
- *The Second Conference on Computational Group Theory, Computational Number Theory and Applications*, University of Kashan, Kashan, Iran, 13–15 October, **2015**.
- *International Workshop on Groups, Representations and Related Topics (IWGRR)*, Chongqing University of Arts and Sciences, Yongchuan, Chongqing, China, 17–20 May, **2018**.
- *Third Conference on Computational Algebra, Computational Number Theory and Applications*, University of Kashan, 12–14 December **2018**.

RESEARCH PAPERS (Total Citations: 414 in the MR Citation Database)

- [90] T. Foguel, A. Mahmoudifar, [A. R. Moghaddamfar](#), and J. Schmidt, Groups with semipartitions, Submitted for publication.

- [89] X. Y. Chen, A. Mahmoudifar, [A. R. Moghaddamfar](#) and F. Salehzadeh, The complexity of specific commuting graphs, *Journal of Algebra and Its Applications*, 2022.
- [88] X. Y. Chen, [A. R. Moghaddamfar](#) and M. Zohourattar, Some properties of various graphs associated with finite groups, *Algebra and Discrete Mathematics*, 31(2)(2021), 195–211.
- [87] T. Foguel, J. Hiller, M. L. Lewis, and [A. R. Moghaddamfar](#), Groups that have a partition by commuting subsets, *J. Group Theory*, 24(3) (2021), 549–571.
- [86] M. Akbari, X. Y. Chen and [A. R. Moghaddamfar](#), OD-Characterization of some simple unitary groups, *Bull. Iranian Math. Soc.*, 47(1)(2021), 197–215.
- [85] B. Akbari, M. L. Lewis, J. Mirzajani, and [A. R. Moghaddamfar](#), The solubility graph associated with a finite group, *Internat. J. Algebra Comput.*, 30(8)(2020), 1555–1564.
- [84] M. Akbari, X. Y. Chen and [A. R. Moghaddamfar](#), An OD-characterizable class of simple groups, *Algebra and Discrete Mathematics*, 29(1)(2020), 41–50.
- [83] Y. Bagheri, [A. R. Moghaddamfar](#) and F. Ramezani, Concerning some properties of signed graphs associated with specific graphs, *Discrete Applied Mathematics*, 279(2020), 25–33.
- [82] M. L. Lewis, J. Mirzajani, [A. R. Moghaddamfar](#), A. V. Vasil’ev and M. A. Zvezdina, Simple groups whose prime graph or solvable graph is split, *Bull. Malays. Math. Sci. Soc.*, 43(3) (2020), 2523–2547.
- [81] A. Mahmoudifar, [A. R. Moghaddamfar](#) and F. Salehzadeh, Group partitions via commutativity, *Int. Electron. J. Algebra*, 25(1) (2019), 224–231.
- [80] S. Kirkland, [A. R. Moghaddamfar](#), S. Navid Salehy, S. Nima Salehy and M. Zohourattar, The complexity of power graphs associated with finite groups, *Contrib. Discrete Math.*, 13(2)(2018), 124–136.
- [79] M. L. Lewis, D. V. Lytkina, V. D. Mazurov, [A. R. Moghaddamfar](#), Splitting via noncommutativity, *Taiwanese J. Math.*, 22(5) (2018), 1051–1082.
- [78] [A. R. MOGHADDAMFAR](#), S. NAVID SALEHY and S. NIMA SALEHY, A matrix-theoretic perspective on some identities involving well-known sequences, *Bull. Malays. Math. Sci. Soc.*, 41(1) (2018), 15–28.
- [77] [A. R. MOGHADDAMFAR](#), S. RAHBARIYAN, S. NAVID SALEHY and S. NIMA SALEHY, The number of spanning trees of power graphs associated with specific groups and some applications, *Ars Combin.*, 113 (2017), 269–296. (1 Citation)
- [76] [A. R. MOGHADDAMFAR](#), S. RAHBARIYAN, S. NAVID SALEHY and S. NIMA SALEHY, Some infinite matrices whose leading principal minors are well-known sequences, *Util. Math.*, 104(2017), 47–66.
- [75] [A. R. MOGHADDAMFAR](#), On alternating and symmetric groups which are quasi OD-characterizable, *J. Algebra Appl.*, 16 (4)(2017), 1750065, 14 pages. (1 Citation)
- [74] A. MOHAMADZADEH and [A. R. MOGHADDAMFAR](#), Several quantitative characterizations of some specific groups, *Comment. Math. Univ. Carolin.*, 58(1)(2017), 19–34.
- [73] A. MAHMOUDIFAR and [A. R. MOGHADDAMFAR](#), Commuting graphs of groups and related numerical parameters, *Comm. Algebra*, 45(7)(2017), 3159–3165.
- [72] M. AKBARI and [A. R. MOGHADDAMFAR](#), Groups for which the noncommuting graph is a split graph, *Int. J. Group Theory*, 6(1)(2017), 29–35. (1 Citation)
- [71] B. AKBARI, N. IIYORI and [A. R. MOGHADDAMFAR](#), A new characterization of some simple groups by order and degree pattern of solvable graph, *Hokkaido Math. J.*, 45(3)(2016), 337–363.

- [70] [A. R. MOGHADDAMFAR](#), S. NAVID SALEHY and S. NIMA SALEHY, Proof of a conjecture on determinants of matrices whose entries arise as recurrences, *Southeast Asian Bull. Math.*, 40(3)(2016), 389–396.
- [69] V. D. MAZUROV and [A. R. MOGHADDAMFAR](#), Recognizing by spectrum for the automorphism groups of sporadic simple groups, *Commun. Math. Stat.*, 3(4)(2015), 491–496.
- [68] [A. R. MOGHADDAMFAR](#) and S. RAHBARIYAN, A quantitative characterization of Mathieu group M_{12} , *Southeast Asian Bull. Math.*, 39(2)(2015), 235–248.
- [67] B. AKBARI and [A. R. MOGHADDAMFAR](#), On recognition by order and degree pattern of finite simple groups, *Southeast Asian Bull. Math.*, 39(2)(2015), 163–172. (1 Citations)
- [66] [A. R. MOGHADDAMFAR](#) and S. RAHBARIYAN, OD-Characterization of some projective special linear groups over the binary field and their automorphism groups, *Comm. Algebra*, 43(6)(2015), 2308–2334. (2 Citations)
- [65] B. AKBARI and [A. R. MOGHADDAMFAR](#), OD-Characterization of certain four dimensional linear groups with related results concerning degree patterns, *Front. Math. China*, 10(1)(2015), 1–31. (1 Citation)
- [64] [A. R. MOGHADDAMFAR](#) and S. RAHBARIYAN, A quantitative characterization of some finite simple groups through order and degree pattern, *Note Mat.*, 34(2)(2014), 91–105. (1 Citation)
- [63] [A. R. MOGHADDAMFAR](#), Some results concerning noncommuting graphs associated with finite groups, *Southeast Asian Bull. Math.*, 38(5)(2014), 661–676. (1 Citation)
- [62] M. AKBARI and [A. R. MOGHADDAMFAR](#), Some quantitative characterizations of certain symplectic groups over the binary field, *Int. Electron. J. Algebra*, 16(2014), 32–52. (2 Citations)
- [61] [A. R. MOGHADDAMFAR](#), S. RAHBARIYAN and W. J. SHI, Certain properties of the power graph associated with a finite group, *J. Algebra Appl.* 13(7)(2014), 1450040, 18 pages. (16 Citations)
- [60] [A. R. MOGHADDAMFAR](#) and H. TAJBAKHS, More determinant representations for sequences, *J. Integer Seq.*, 17(5)(2014), Article 14.5.6, 16 pages.
- [59] M. AKBARI and [A. R. MOGHADDAMFAR](#), The existence or nonexistence of non-commuting graphs with particular properties, *J. Algebra Appl.*, 13(1)(2014), 1350064, 11 pages. (2 Citations)
- [58] [A. R. MOGHADDAMFAR](#), S. NAVID SALEHY and S. NIMA SALEHY, Determinant representations of sequences: a survey, *Spec. Matrices*, 1(2013), 46–60. (5 Citations)
- [57] M. AKBARI, [A. R. MOGHADDAMFAR](#) and S. RAHBARIYAN, A characterization of some finite simple groups through their orders and degree patterns, *Algebra Colloq.*, 19(3)(2012), 473–482. (12 Citations)
- [56] B. AKBARI and [A. R. MOGHADDAMFAR](#), Recognizing by order and degree pattern of some projective special linear groups, *Internat. J. Algebra Comput.*, 22(6)(2012), 1250051, 22 pages. (5 Citations)
- [55] M. KHEIRABADI and [A. R. MOGHADDAMFAR](#), Recognizing some finite simple groups by noncommuting graph, *J. Algebra Appl.*, 11(4)(2012), 1250077, 14 pages. (2 Citations)
- [54] [A. R. MOGHADDAMFAR](#) and H. TAJBAKHS, Lucas numbers and determinants, *Integers*, 12(1)(2012), 21–51. (1 Citation)
- [53] [A. R. MOGHADDAMFAR](#), S. M. H. POOYA, S. NAVID SALEHY and S. NIMA SALEHY, More on evaluating determinants, *Mat. Vesnik*, 64(3)(2012), 211–222. (1 Citation)
- [52] [A. R. MOGHADDAMFAR](#), Recognizability of finite groups by order and degree pattern, *Proceedings of the International Conference on Algebra 2010*, 422–433. (3 Citations)

- [51] R. KOGANI-MOGHADDAM and A. R. MOGHADDAMFAR, “Groups with the same order and degree pattern”, *Sci. China Math.*, 55(4)(2012), 701–720. (9 Citations)
- [50] M. AKBARI and A. R. MOGHADDAMFAR, Simple groups which are 2-fold OD-characterizable, *Bull. Malays. Math. Sci. Soc.*, 35(1)(2012), 65–77. (8 Citations)
- [49] A. R. MOGHADDAMFAR, Some counter-examples to a conjecture concerning OC-recognizability of finite simple groups, *Journal of Southwest University (Natural Science Edition)*, 33(2)(2011), 98–100.
- [48] A. R. MOGHADDAMFAR and S. RAHBARIYAN, More on the OD-characterizability of a finite group, *Algebra Colloq.*, 18(4)(2011), 663–674. (18 Citations)
- [47] A. R. MOGHADDAMFAR, K. MOGHADDAMFAR and H. TAJBAKSH, New families of integer matrices whose leading principal minors form some well-known sequences, *Electron. J. Linear Algebra*, 22(2011), 598–619. (Citations 1)
- [46] M. AKBARI, M. KHEIRABADI and A. R. MOGHADDAMFAR, Recognition by noncommuting graph of finite simple groups $L_4(q)$, *Front. Math. China*, 6(1)(2011), 1–16. (2 Citations)
- [45] N. MIRASHE, A. R. MOGHADDAMFAR, S. H. MOZAFARI, The determinants of matrices constructed by subdiagonal, main diagonal and superdiagonal, *Lobachevskii J. Math.*, 31(3)(2010), 295–306.
- [44] A. IMANI and A. R. MOGHADDAMFAR, The inverse of the Pascal lower triangular matrix modulo p ”, *Acta Math. Univ. Comenian. (N.S.)*, 79(1)(2010), 135–142. (1 Citation)
- [43] A. A. HOSEINI and A. R. MOGHADDAMFAR, Recognizing alternating groups A_{p+3} for certain primes p by their orders and degree patterns, *Front. Math. China*, 5(3)(2010), 541–553. (18 Citations)
- [42] A. R. MOGHADDAMFAR, Determinants of several matrices associated with Pascal’s triangle, *Asian-Eur. J. Math.*, 3(1)(2010), 119–131.
- [41] A. R. MOGHADDAMFAR and A. R. ZOKAYI, OD-Characterization of certain finite groups having connected prime graphs, *Algebra Colloq.*, 17(1)(2010), 121–130. (21 Citations)
- [40] A. R. MOGHADDAMFAR, S. M. H. POOYA, S. NAVID SALEHY and S. NIMA SALEHY, On the matrices related to m -arithmetic triangle, *Linear Algebra Appl.*, 432(1)(2010), 53–69. (1 Citation)
- [39] A. R. MOGHADDAMFAR, S. M. H. POOYA, S. NAVID SALEHY and S. NIMA SALEHY, Fibonacci and Lucas sequences as the principal minors of some infinite matrices, *J. Algebra Appl.*, 8(6)(2009), 869–883. (3 Citations)
- [38] A. R. MOGHADDAMFAR and A. R. ZOKAYI, OD-Characterization of alternating and symmetric groups of degrees 16 and 22, *Front. Math. China*, 4(4)(2009), 669–680. (18 Citations)
- [37] A. R. MOGHADDAMFAR and M. H. POOYA, Generalized Pascal triangles and Toeplitz matrices, *Electron. J. Linear Algebra*, 18(2009), 564–588. (3 Citations)
- [36] A. R. MOGHADDAMFAR and A. R. ZOKAYI, On the admissibility of finite groups, *Southeast Asian Bull. Math.*, 33(3)(2009), 485–489.
- [35] A. R. MOGHADDAMFAR, M. H. POOYA, S. NAVID SALEHY and S. NIMA SALEHY, A symbolic evaluation of determinants of matrices with recursive entries, *Lobachevskii J. Math.*, 30(1)(2009), 46–56.
- [34] A. R. MOGHADDAMFAR, S. NAVID SALEHY and S. NIMA SALEHY, Evaluating some determinants of matrices with recursive entries, *Bull. Korean Math. Soc.*, 46(2)(2009), 331–346.
- [33] A. R. MOGHADDAMFAR, A comparison of the order components in Frobenius and 2-Frobenius groups with finite simple groups, *Taiwanese J. Math.*, 13(1)(2009), 67–89. (2 Citations)

- [32] N. MIRASHE, [A. R. MOGHADDAMFAR](#), S. H. MOZAFARI, S. M. H. POOYA, S. NAVID SALEHY and S. NIMA SALEHY, Constructing new matrices and investigating their determinants, *Asian-Eur. J. Math.*, 1(4)(2008), 575–588. (1 Citation)
- [31] [A. R. MOGHADDAMFAR](#), S. NAVID SALEHY and S. NIMA SALEHY, Certain matrices related to the Fibonacci sequence having recursive entries, *Electron. J. Linear Algebra*, 17(2008), 543–576.
- [30] [A. R. MOGHADDAMFAR](#) and A. R. ZOKAYI, Recognizing finite groups through order and degree pattern, *Algebra Colloq.*, 15(3)(2008), 449–456. (29 Citations)
- [29] [A. R. MOGHADDAMFAR](#), S. NAVID SALEHY and S. NIMA SALEHY, The determinants of matrices with recursive entries, *Linear Algebra Appl.*, 428(11-12)(2008), 2468–2481. (3 Citations)
- [28] [A. R. MOGHADDAMFAR](#), S. M. H. POOYA, S. NAVID SALEHY and S. NIMA SALEHY, More calculations on determinant evaluations, *Electron. J. Linear Algebra*, 16(2007), 19–29. (2 Citations)
- [27] [A. R. MOGHADDAMFAR](#) and W. J. SHI, The number of finite groups whose element orders is given, *Beiträge Algebra Geom.*, 47(2)(2006), 463–478. (4 Citations)
- [26] M. R. DARAFSHEH, [A. R. MOGHADDAMFAR](#) and A. R. ZOKAYI, The characterization of $PGL(2, p)$ for some p by their element orders, *Int. Math. Forum*, 1(37-40)(2006), 1825–1831.
- [25] [A. R. MOGHADDAMFAR](#), About noncommuting graphs, *Siberian Math. J.*, 47(5)(2006), 911–914. Translated from *Sibirsk. Mat. Zh.*, 47(5)(2006), 1112–1116. (14 Citations)
- [24] V. D. MAZUROV and [A. R. MOGHADDAMFAR](#), The recognition of simple group $S_8(2)$ by its spectrum, *Algebra Colloq.*, 13(4)(2006), 643–646. (2 Citations)
- [23] [A. R. MOGHADDAMFAR](#), On spectrum of linear groups over the binary field and recognizability of $L_{12}(2)$, *Internat. J. Algebra Comput.*, 16(2)(2006), 341–349. (4 Citations)
- [22] [A. R. MOGHADDAMFAR](#), A. R. ZOKAYI and M. KHADEMI, A characterization of the finite simple group $L_{11}(2)$ by its element orders, *Taiwanese Journal of Mathematics*, 9(3)(2005), 445–455. (4 Citations)
- [21] M. R. DARAFSHEH, N. S. KARAMZADEH and [A. R. MOGHADDAMFAR](#), Relation between Frobenius and 2-Frobenius groups with order components of finite groups, *J. Appl. Math. Comput.*, 21(1-2)(2006), 437–450. (1 Citation)
- [20] M. S. LUCIDO and [A. R. MOGHADDAMFAR](#), Recognition by spectrum of some linear groups over the binary field, *Siberian Math. J.*, 47(1)(2006), 86–96. Translated from *Sibirsk. Mat. Zh.*, 47(1)(2006), 108–122. (2 Citations)
- [19] M. R. DARAFSHEH, Y. FARJAMI, M. KHADEMI and [A. R. MOGHADDAMFAR](#), Some results on the recognizability of the linear groups over the binary field, *Comment. Math. Univ. Carolin.*, 46(4)(2005), 589–600. (2 Citations)
- [18] M. A. GRECHKOSEVA, M. S. LUCIDO, V. D. MAZUROV, [A. R. MOGHADDAMFAR](#), and A. V. VASIL'EV, On recognition of the projective special linear groups over the binary field, *Sib. Elektron. Mat. Izv.*, 2(2005), 253–263. (8 Citations)
- [17] [A. R. MOGHADDAMFAR](#), A. R. ZOKAYI and M. R. DARAFSHEH, A characterization of finite simple groups by the degrees of vertices of their prime graphs, *Algebra Colloq.*, 12 (3)(2005), 431–442. (32 Citations)
- [16] [A. R. MOGHADDAMFAR](#), W. J. SHI, W. ZHOU and A. R. ZOKAYI, On the noncommuting graph associated with a finite group, *Siberian Math. J.*, 46(2)(2005), 325–332. Translated from *Sibirsk. Mat. Zh.*, 46(2)(2005), 416–425. (25 Citations)

- [15] M. R. DARAFSHEH and A. R. MOGHADDAMFAR, Finite groups which are product of $L_2(7)$ or $L_2(8)$ with a symmetric group, *Algebra Colloq.*, 12(1)(2005), 1–10.
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- [13] A. R. MOGHADDAMFAR and W. J. SHI, The characterization of almost simple groups $PGL(2, p)$ by their element orders, *Comm. Algebra*, 32(9)(2004), 3327–3338. (3 Citations)
- [12] A. R. MOGHADDAMFAR, A. R. ZOKAYI and M. R. DARAFSHEH, On the characterizability of the automorphism groups of sporadic simple groups by their element orders, *Acta Math. Sin. (Engl. Ser.)*, 20(4)(2004), 653–662. (1 Citation)
- [11] M. S. LUCIDO and A. R. MOGHADDAMFAR, Groups with complete prime graph connected components, *J. Group Theory*, 7(3)(2004), 373–384. (27 Citations)
- [10] M. R. DARAFSHEH, A. R. MOGHADDAMFAR and A. R. ZOKAYI, A recognition of simple groups $PSL(3, q)$ by their element orders, *Acta Math. Sci. Ser. B Engl. Ed.*, 24(1)(2004), 45–51. (3 Citations)
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- [6] M. R. DARAFSHEH, A. R. MOGHADDAMFAR and A. R. ZOKAYI, A characterization of some symmetric and linear groups, *Algebras Groups Geom.*, 18(3)(2001), 281–299. (5 Citations)
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- [3] M. R. DARAFSHEH and A. R. MOGHADDAMFAR, A characterization of groups related to the linear groups $PSL(n, 2)$, $n = 5, 6, 7, 8$, *Pure Math. App.*, 11(4)(2000), 629–637. (9 Citations)
- [2] M. R. DARAFSHEH and A. R. MOGHADDAMFAR, A characterization of some finite groups by their elements orders, *Algebra Colloq.*, 7(4) (2000), 467–476. (9 Citations)
- [1] A. HASSANI and A. R. MOGHADDAMFAR, Groups with deficient products on 2-element and 3-element subsets, *Journal of Science Ferdowsi University of Mashhad*, 1(2)(1999), 1–5.

IN PREPARATION

- [5] “A skymetric tree”.
- [4] “Groups for which the prime graph is a split graph”.
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- [6] “*Graph Energy*”, by XUELIANG LI, YONGTANG SHI and S, Springer Science, Translated from English to Persian by [A. R. MOGHADDAMFAR](#).
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- [19] “*Determinant Representations of Sequences*”, The Second Conference on Computational Group Theory, Computational Number Theory and Applications, University of Kashan, 13–15 October 2015.
- [18] “*Some Problems Concerning OD-Recognizability of Finite Groups*”, Seminar on Group Theory, School of Mathematics and Statistics, Southwest University, Chongqing, China, 20–23 May 2015.
- [17] “*The Power Graph Associated With a Finite Group and Related Numerical Parameters*”, International Workshop on Quantitative Properties of Groups and Related Topics (IWQPG), Chongqing University of Arts and Sciences, Yongchuan, Chongqing, China, 16–19 May 2015.
- [16] “*Groups with split noncommuting graphs*”, Third Biennial International Group Theory Conference, Ferdowsi University of Mashhad, Mashhad-Iran, 28-31 January 2015.
- [15] “*The number of spanning trees of power graphs associated with specific groups and some applications*”, The 44th Annual Iranian Mathematics Conference, Ferdowsi University of Mashhad, 27–30 August 2013.
- [14] “*Recognizability of finite groups by order and degree pattern*”, The International Conference on Algebra 2010, Advances in Algebraic Structures (ICA 2010), Gadjah-Mada University, Yogyakarta-Indonesia, 7–10 October, 2010. Proceedings of the International Conference on Algebra 2010, 422-433, World Sci. Publ., Hackensack, NJ, 2012.
- [13] “*About OD-characterization of finite groups*”, Group Theory Conference, Mashhad, Iran, March 10-12, 2010 (pp. 57-64).
- [12] “*The Fibonacci and Lucas subsequences as principal minors of quasi-Pascal matrices*”, 77. Arbeitstagung Allgemeine Algebra, 77th Workshop on General Algebra, 24th Conference for Young Algebraists, Potsdam, Germany, March 20-22, 2009.

- [11] “*On the prime graph associated with a finite group*”, Two Days Group Theory Seminar, Isfahan, Iran, March 12-13, 2009.
- [10] “*OD-Characterizability of certain finite groups having connected prime graphs*”, The Second International Congress in Algebra and Combinatorics, Beijing-Xi’an China, July 6-15, 2007.
- [9] “*Investigating OD-characterizability of some finite groups*”, Fourteenth Ramanujan Symposium- International conference on Non-Commutative Rings, Group Rings, Diagram Algebras, and Applications, Ramanujan Institute for Advanced study in Mathematics, University of Madras, India, December 18–22, 2006.
- [8] “*The non-commuting graph of a finite group*”, The 6th International Pure Mathematics Conference on Algebra, Geometry, Analysis, and Mechanics”, Islamabad, Pakistan, August 20–22, 2005.
- [7] “*Some properties of non-commuting graph related to a finite group*”, Groups and Group Rings XI, Bedlewo, Poland, June 4–11, 2005.
- [6] “*On recognizability of the simple groups $PSL(n, 2)$ through their spectra*”, Eighteenth Brazilian Algebra School, Campinas, Brazil, July 19–23, 2004.
- [5] “*A characterization of finite simple groups by the degrees of vertices of their prime graphs*”, International Conference on Algebra, Suzhou, China August 29 - September 2, 2002.
- [4] “*The characterization of almost simple groups $PGL(2, p)$ by its element orders, where p is a prime and $5 \leq p \leq 100$* ”, International Congress of Mathematicians 2002, Beijing, China August 20–28, 2002.
- [3] “*A quantitative characterization of the alternating groups A_p* ”, The 12th Iranian National Seminar in Algebra, Shahid Beheshti University, Tehran, Iran, March 2000.
- [2] “*A discussion about the Newton-Khayam triangle utilizing matrix determinant*”, The 10th Iranian National Seminar in Algebra, University of Kurdistan, Sanandaj, Iran, October 1998.
- [1] “*Groups with deficient products on k -element and l -element subsets*”, The 29th Conference of Mathematics, Amir Kabir University, Tehran, Iran, March 1998.

CURRENT PH.D. STUDENTS

- [3] F. Karamzadeh (2019).
- [2] M. Bahrami-Taghanaki (2018).
- [1] N. Karamiyanmanesh (2018).

FINISHED PH. D. STUDENTS

- [8] F. Salehzadeh, 2015–2021, *The Commuting Graph of Finite Groups and Some Applications*.
- [7] Y. Bagheri, 2017–2021, *Coloring and Switching Isomorphism Problems on Some Families of Signed Graphs*.
- [6] Majid Akbari, 2012–2020, *Recognition of Some Algebraic Structures by Associated Simple Graphs*.
- [5] J. Mirzajani, 2015–2020, *Solvable Graphs Associated With Finite Groups and Related Topics*.
- [4] M. Zohouratar, 2015–2019, *Some Numerical Results on Power Graphs Associated With Finite Groups*.
- [3] Marziah Akbari, 2010–2015, *Recognizing by Non-Commuting Graph of Algebraic Structures*.

- [2] B. Akbari, 2009–2014, *OD-Characterizability of Finite Groups*.
Address: Assistant Professor of Mathematics, Department of Mathematics, Sahand University of Technology, Sahand, Iran.
- [1] S. Rahbariyan, 2009–2014, *Quantitative Characterizations of Some Finite Simple Groups*.
Address: Assistant Professor of Mathematics, Department of Mathematics, Faculty of Science, Arak University, Arak, Iran.

MASTER'S STUDENTS

- [49] M. Zakeri, 2021, *Groups in which the centralizer of any non-central element is maximal*.
- [48] B. Masoudi, 2021, *Groups that have a partition by commuting subsets*.
- [47] F. Mardani, 2021, *Primitive characters of maximal subgroups of solvable groups*.
- [46] F. Abbasi, 2021, *Isomorphic subgroups of solvable groups*.
- [45] M. Faghihian, 2021, *On finite groups isospectral to simple groups*.
- [44] A. Ansari, 2021, *Generalized Frobenius groups and related topics*.
- [43] N. Kian, 2020, *Large abelian normal subgroups*.
- [42] F. Golpayegani, 2019, *Equally partitioned groups*.
- [41] Z. Rasooli-Konjin, 2019, *Groups with specific number of centralizers*.
- [40] F. Shabanpoor-Saber, 2019, *On Camina p -groups*.
- [39] L. Karvand, 2019, *Derived subgroups and centers of capable groups*.
- [38] B. Gholizadeh, 2019, *On the determinants of matrices with recursive entries*.
- [37] H. Veisi, 2018, *Undirected power graphs of finite groups and related topics*.
- [36] M. Sarkhosh, 2018, *Recognizability of groups $G_2(q)$ by spectrum*.
- [35] Sh. Heydari, 2018, *Characteristic polynomial analysis of matrix representations of graphs*.
- [34] P. Ghorbani, 2018, *On energy and Laplacian energy of graphs*.
- [33] M. Yousefi, 2015, *Noncommuting graphs associated with finite groups and related topics*.
- [32] M. R. Jalali, 2015, *On some parameters associated with solvable graphs of finite groups*.
- [31] A. Hozhabrinia, 2015, *The number of spanning trees of power graphs associated with specific groups and some applications*.
- [30] S. Khavari, 2015, *Concerning some properties of the power graph associated with a finite group*.
- [29] Kh. Khazaei, 2014, *A generalization of prime graphs of finite groups*.
- [28] A. Mohamadzadeh, 2014, *On finite groups isospectral to simple symplectic and orthogonal groups*.
- [27] M. Koohestani, 2014, *Recognizability of finite simple groups $L_4(2^m)$ and $U_4(2^m)$ by spectrum*.
- [26] M. Zohourattar, 2014, *Studying some properties of noncommuting graphs associated with nonabelian finite groups*.

- [25] S. M. H. Pooya, 2013, *Evaluations of determinants of some matrices with recursive entries.*
- [24] M. Yeganeh Mohammadi, 2013, *Complex factorizations of the Fibonacci and Lucas numbers.*
- [23] M. Tale Masouleh, 2012, *Evaluating determinants of convolution-like matrices via generating functions.*
- [22] S. Nima Salehy, 2012, *Quasi-cyclic codes as codes over rings of matrices.*
- [21] S. Navid Salehy, 2012, *A commutative algebra approach to linear codes.*
- [20] E. Ebrahimi, 2012, *Strongly regular graphs and their extensions.*
- [19] A. Frazaneh, 2012, *Recognition of the simple groups $\text{PSL}(3, q)$ by element orders.*
- [18] S. H. Ashbahi, 2011, *Cocliques of maximal size in the prime graph of a finite simple group.*
- [17] Z. Adinehvand, 2011, *Recognition of finite groups by the prime graph.*
- [16] S. Ashjazadeh, 2011, *OD-characterization of K_4 -simple groups.*
- [15] N. Esmaeili, 2011, *Recognition by spectrum of the groups ${}^2D_{2m+1}(3)$.*
- [14] R. Kogani-moghaddam, 2010, *OD-characterizability of some finite almost simple groups.*
- [13] M. Kheirabadi, 2010, *A characterization of finite simple groups through their noncommuting graphs.*
- [12] H. Tajbakhsh, 2010, *Matrices determined by a linear recurrence relation among entries.*
- [11] B. Akbari, 2009, *OD-characterization of certain finite groups with connected prime graph.*
- [10] M. Akbari, 2009, *Recognizing of finite groups through order and degree pattern.*
- [9] S. Rahbariyan, 2008, *Recognition by spectrum of linear groups over the binary field.*
- [8] A. Imani, 2008, *Determinants of matrices related to the Pascal triangle.*
- [7] M. Babai, 2008, *Sporadic simple groups and their automorphism groups.*
- [6] A. A. Hosseini, 2007, *OD-characterizability of alternating simple groups having connected prime graphs.*
- [5] P. Mavaddat, 2007, *The number of composite numbers in the set of element orders of a finite group.*
- [4] A. Alimohammadi, 2007, *OD-Characterization of some simple C_{pp} -groups where $p = 2^\alpha 3^\beta + 1$ is a prime.*
- [3] H. Bakhshi, 2006, *On the noncommuting graph associated with a finite group.*
- [2] H. Moshtagh, 2005, *A characterization of finite simple groups by the degrees of vertices of their prime graphs.*
- [1] S. Jafari, 2005, *The characterization of finite simple groups with no elements of order 6 by their element orders.*

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