

Marjan Sheibani Abdolyousefi

Associate Professor, Semnan University, Semnan, Iran
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WORKING EXPERIENCE

Associate Professor, Semnan University, Semnan, Iran

Sep 2021 – Present

▪ Course Teacher

- Associative Rings with Additional Structure
- Group of Units
- Linear Algebra
- Calculus (math 1, math 2)
- Differential Equation
- Operation Research
- Engineering Mathematics

▪ Advised Thesis

- Representations of s-Drazin inverses in associative rings and Banach algebras, Bibi Roghayeh Bahlekeh, (PhD 2024).
- The generalized inverses of matrices and its applications, Farzaneh Tayebi, (PhD, 2024)
- Generalized inverses and their relations with Jacobson's Lemma, Abbas Abbasi, (PhD 2023)
- Investigation of the structure of hypergroups related to induced topology and generalizations of Hirano inverses in Banach algebra, Tahereh Haddadi (PhD, 2022).
- Jacobson's Lemma and generalized inverses, Fatemeh Hoseininejad, (M.Sc, 2022).

▪ Thesis in progress

- Decompositions of elements in rings and Banach algebras, Mahshid Mohammadi, Ph.D. student.
- Group inverse of anti-triangular block operator matrices over non-commutative rings, Fatemeh Zamiri, Ph.D. student.
- decomposition of elements in non-commutative rings, Iman Amani, Ph.D. student.

Assistant Professor, Semnan University, Semnan, Iran

Sep 2017 – Aug 2021

RESEARCH INTERESTS

- Non-Commutative Rings
- Matrix and Operator Theory
- Generalized Inverses
- Ring and Module
- Commutative Rings

EDUCATION

Semnan University, Semnan, Iran ,

Sep 2011 – Sep 2015

▪ Ph.D. In Mathematics

- **Thesis Title:** Diagonal Reduction of Matrices over Refinement Rings
- **Supervisor:** Dr. Rahman Bahmani

Kharazmi University, Tehran, Iran ,

Sep 2005 – Sep 2007

▪ Master of Science (M.Sc.) in Mathematics

- **Thesis Title:** Associate prime of weakly Laskerian modules
- **Supervisor:** Prof. Hosein Zakeri

Tabriz University, Tabriz, Iran ,

Sep 2001 – Sep 2005

▪ Bachelor of Science (B.Sc.) in Mathematics

PUBLICATIONS

Book

- Theory of Clean Rings and Matrices, H. Chen and M. Sheibani, World Scientific, <https://doi.org/10.1142/12959> | September 2022.
- Works in progress
 - Rings with additional structures
 - Generalized inverses of anti-triangular block operator matrices

Article

- **2024**
 - Properties of generalized weighted core inverses in Banach $*$ -algebras, H. Chen and **M. Sheibani**, Journal of algebra and its applications, (2025).
 - Generalized pi-Hirano inverses of the sum in Banach algebras, B. Bahlakeh, R. Bahmani, **M. Sheibani Abdolyousefi** and N. Ashrafi, International Electronic Journal of Algebra. (2024)
 - The G-Drazin inverse of an operator matrix over Banach spaces, F.Tayebi, N. Ashrafi, R. Bahmani and **M. Sheibani**, Kyungpook Mathematical Journal, (2024).
 - Extended Jacobson's Lemma for the generalized inverse, F.Tayebi, N. Ashrafi, R. Bahmani and **M. Sheibani**, filomat, 38 (2024).
 - The G-Drazin inverse of anti-triangular block operator matrices, H. Chen and **M. Sheibani**, Applied Mathematics and Computation, 463(2024), doi.org/10.1016/j.amc.2023.128368.
 - The Generalized Drazin inverse of an operator matrix with commuting entries, H. Chen and **M. Sheibani**, Georgian Mathematical Journal,
- **2023**
 - The group invertibility of a matrix with nonsingular generalized Schur complement, H. Chen and **M. Sheibani**, Publications Mathematicae Debrecen, (to appear).
 - Additive property for generalized Zhou inverse in a Banach algebra, R. Bahmani, A. Abbasi, **M. Sheibani** and N. Ashrafi, Filomat, 37(9) (2023), 3301-3309.
 - Block Representation for the G-Drazin inverse in Banach Algebras, H.Chen and **M. Sheibani**, Miscolk Mathematical Notes, (2023) (to appear).
 - The Group inverse of certain block complex matrices, H. Chen and **M. Sheibani**, Filomat, 37(10)(2023), 3153-3166.
 - Generalized Cline's formula for g-Drazin inverse in a ring, H. Chen and **M. Sheibani**, filomat, 37(10)(2023), 3021-3028.
 - The G-Drazin invertibility in a Banach algebra, H. Chen and **M. Sheibani**, filomat, 37(10)(2023), 3021-3028.
 - On Yaqub nil clean rings, H. Chen and **M. Sheibani**, Math. Reports, 74(1)(2023),
 - On feebly nil-clean rings, **M. Sheibani** and N. pouyan, Czechoslovak mathematical Journal, (to appear).
 - On dual of the group algebras under a locally convex topology. A. Ghaffari, **M. Sheibani** and E. Tamimi, DOI: 10.22055/JAMM.2023.43770.2164.
- **2022**
 - The g-Drazin inverse of the sum in Banach algebras, H. Chen and **M. Sheibani**, Linear and Multilinear Algebra, 70(1)(2022), 52-65.
 - On the structure of hypergroups with respect to the induced topology, A. Ghaffari, T. Haddadi, S.Javadi and **M. Sheibani**, Rocky Mountain J. Math., 52(2)(2022), 519-533.
 - An extension of Hirano inverses in a Banach Algebra, A. Ghaffari, T. Haddadi and **M. Sheibani**, Filomat, 36(9), (2022), 3197-3206.
 - Generalized Cline's formula and Jacobson's lemma in a ring, H. Chen and **M. Sheibani**, Algebra Collquium, (2022), accepted.
 - Certain Additive Decompositions in a Noncommutative Ring, H. Chen, **M. Sheibani** and R. Bahmani, Czechoslov. Math. J., 72147(2022), 1217-1226.
 - H. Chen and **M. sheibani**, Generalized Cline's formula for the g-Drazin inverse in a ring, Filomat, 36(2022), 3197-3206 .
 - Rings generalized by tripotents and nilpotents, H. Chen, **M. Sheibani** and N. Ashrafi, Czechoslov. Math. J., 72(147)(2022), 1175-1182.
 - New Formulae of the Drazin inverse of anti-triangular complex block matrices, H. Chen and **M. sheibani**, Filomat, 36(12) (2022), 4251-4264.
 - Diagonal reduction of matrices over refinement rings, **M. Sheibani**, R. Bahmani and N. Ashrafi, Mathematical researches, Kharazmi university, 8(3)(2022), 132-143.
- **2021**

- The G-Hirano inverse in Banach Algebras, H. Chen and M. Sheibani, *Linear and Multilinear Algebra*, (2021), 69(7), 1352-1362.
- The G-Drazin inverse of special operator matrices, H. Chen and M. Sheibani, *Operators and Matrices*,(2021), 15(1), 151-162.
- Generalized Zhou inverses in rings, H. Chen and M. Sheibani, *Communications in algebra*, 49(10), 4098-4108.
- Generalized Cline's formula for G-Drazin inverse in a ring, H. Chen and M. Sheibani Abdolyousefi, *Filomat*, (2021)35(8).
- Generalized Jacobson's Lemma for generalized Drazin, H. Chen and M. Sheibani Abdolyousefi, *Filomat*, (2021)35(7), 2267-2275.
- Generalized Jacobson's Lemma in a Banach algebra, H. Chen and M. Sheibani Abdolyousefi, *Communications in Algebra*, (2021), 49(8), 3263-3272.
- The representations of the G-Drazin inverse in a Banach algebra, Marjan Sheibani Abdolyousefi, *Hacettepe Journal of Mathematics*, (2021), 50(3), 659-667.
- Rings additively generated by idempotents and nilpotents, H. Chen and M. Sheibani, *Communications in Algebra* (2021), 49(4), 1781-1787.
- Generalized Cline's Formula and Common Spectral Property. H. Chen and M. Sheibani Abdolyousefi, *Journal of Algebra and its Applications*, (2021), 20(6), doi.org/10.1142/S0219498821500948.
- Cline's formula and Jacobson's Lemma for G- Drazin inverse, H. chen and M. sheibani, *Filomat*, (2021)35(15)5083-5091.

▪ **2020**

- G- Drazin Inverse for Operator matrices, H. Chen and M. Sheibani Abdolyousefi, *Operator and Matrices*, (2020)14, 23-31.
- Expression of the G-Drazin Inverse in a Banach Algebra, H. Chen and M. Sheibani Abdolyousefi, *filomat* (2020), 34, 3845-3854.
- The G- drazin Inverse Involving Power Commutativity, H. Chen and M. Sheibani Abdolyousefi, *Filomat*, (2020), 34(9), 2961-2969.
- Nilpotent and Linear Combination of Idempotent Matrices. M. Sheibani Abdolyousefi, *International Electronic Journal of Algebra*. (2020), 28, 220-228.
- P-Hirano inverses in Rings, Marjan Sheibani Abdolyousefi, *Filomat*, (2020), 4473-4482.
- On Yaqub nil-clean rings, H. Chen and M. Sheibani Abdolyousefi, *Mathematixal Reports Journal*,

▪ **2019**

- On Medium π -clean Rings H. Chen, M. Shebani Abdoyousefi, and H. Kose, *Mediterr. J. Math.* (2019) 16: 10. <https://doi.org/10.1007/s00009-018-1297-3>.
- Rings Whose Every Subring Is Feebly Clean, H. Chen and M. Sheibani Abdolyousefi, *Bull. Iranian Math. Soc.*,45,(2019), 257-266.
- On Hirano Inverses in Rings, H. Chen and M. Sheibani Abdolyousefi, *Turk .J. Math*, 43(2019), 2049- 2057.
- On The Matrix Which is the Sum of Tripotent and Quasinilpotent Matrices, H. Chen and M. Sheibani Abdolyousefi, *Operator and Matrices*. 13, (2019), 407-419.
- On Unit Nil-Clean Rings, M. Sheibani Abdolyousefi, N. Ashrafi and H. Chen, *Mediterr. J. Math.*, 16(2019).
- Strongly Drazin Inverses in Rings, H. Chen, S.S. Nabavi and M. Sheibani Abdoyousefi, *Operator and Matrices*, 13(2019) 495-505.
- Clines Formula for a G-Drazin Inverse in a Ring, H. Chen and M. Sheibani Abdolyousefi, *Filomat*, 33(2019), 2249-2255.
- Strongly 2- π -clean Rings with Involutions, H. Chen and M. Sheibani Abdoyousefi, *Czechoslovak Mathematical Journal*, 69(2019), 317-330.
- Rings additively generated by tripotents and nilpotents, H. Chen and M. Sheibani, *Journal of Algebra and its Applications*,(2019), 18(3).

- Generalized Hirano Inverses in Banach Algebras, H. Chen and M. Sheibani Abdolyousefi, *Filomat*,33, (2019), 6239-6249.
 - Generalized Hirano Inverses in rings, H. Chen and M. sheibani, *Communications in Algebra*, (2019) 47(7), 2967-2978.
 - Elementary Matrix Reduction over Bezout Domains, H. Chen and M. Sheibani Abdolyousefi, *Journal of Algebra and its Applications*, (2019), 18(08). <https://doi.org/10.1142/S021949881950141X>
- **2018**
- Regularity and Related Rings H. Chen, N. Ashrafi and M. Sheibani Abdolyousefi, *Mediterr. J. Math.*, (2018) 15, <https://doi.org/10.1007/s00009-018-1068-1>.
 - Rings in Which Elements are Sums of Tripotents and Nilpotents, M. Sheibani Abdolyousefi and H. Chen, *Journal of Algebra and Its Applications*, (2018)
 - Matrices Over Zhou Nil-Clean Rings, M. Sheibani Abdolyousefi and H. Chen, *Communications in Algebra*, (2018) 46, 1527-1533.
 - Diagonal Matrix Reduction Over Hermite Rings, H. Chen and M. Sheibani Abdolyousefi, *Linear and Multilinear Algebra*,(2018) 66, 681-691.
 - On 2-Nil-good Rings, M. Sheibani Abdolyousefi, N. Ashrafi and H. Chen, *Journal of Algebra and Its Applications*, (2018).
 - Sums of Tripotent and Nilpotent Matrices, M. Shebani Abdolyousefi and H. Chen, *Bull. Korean Math. Soc.* 55 (2018), 913-920.
 - Structure of Zhou Nil-Clean Rings, H. Chen and M. Shebani Abdolyousefi, *Algebra Colloquium* (2018), 25, 361-368.
 - Rings Consisting Entirely of Certain Elements, H. Chen, M. Sheibani Abdolyousefi, N. Ashrafi, *Czechoslovak Mathematical Journal*, (2018), 68(2), 553-558. 63, 553-558.
 - Generalized Drazin Inverses in a Ring, H.Chen and M. Sheibani Abdolyousefi, *Filomat*, (2018)32, 5289-5295.
- **2017**
- Elementary Matrix Reduction Over J-Stable Rings, M.Sheibani Abdolyousefi and H. Chen, *Communication in Algebra*, (2017)45, 1983-1995.
 - Elementary Matrix Reduction Over Certain Rings, M.Sheibani Abdolyousefi, R. Bahmani Sangesari and H. Chen, *Communications in Algebra*,(2017) 45, 2613-2618.
 - On Strongly Nil Clean Rings, H. Chen and M. Shebani Abdolyousefi, *Communications in Algebra*,(2017) 45, 1719-1726.
 - Strongly Unit Nil-clean Rings, H. Chen and M. Shebani Abdolyousefi, *Journal of Algebra and Its Applications*, (2017) 16.
 - Certain decompositions of Matrices Over Abelian Rings, N. Ashrafi, M. Shebani Abdolyousefi and H. Chen, *Czechoslovak Mathematical Journal* (2017) 67, 417-425.
 - Strongly 2-Nil-Clean Ring, H. Chen and M. Sheibani Abdolyousefi, *Journal of Algebra and Its Applications* (2017) 16.
 - Strongly Weakly Nil-Clean Rings, H. Chen and M. Shebani Abdolyouefi, *Journal of Algebra and Its Applications* (2017) 16.
 - Rings in Which the Power of Every Element is the Sum of an Idempotent and a Unit, H. Chen and M. Sheibani Abdolyousefi, *Publications de l'institute Mathematique*, 102(2017)133-148.
 - Extension of Square Stable Range Rings, M. Sheibani Abdolyousefi and H. Chen, *Mathemtical Reports*, 19(3)(2017), 281-291.
- **2016**
- Combing Euclidean and Adequate Rings, H. Chen and M. Sheibani Abdolyousefi, *Turkish J. Math.*, (2016) 40, 506-516.
 - Elementary Matrix Reduction Over Zabavsky Rings, H. Chen and M. Sheibani Abdolyousefi, *Bull. Korean Math. Soc.*, (2016)53, 195-204.

- Extension of Refinement Rings R. Bahmani, M. Sheibani Abdolyousefi and N. Ashrafi, Turkish J. Math., (2016) 40, 71-79.

▪ **2015**

- Almost Power Hermitean Rings, N. Ashrafi, M. Sheibani Abdolyousefi and H. Dehghani, Bull. Iranian Math. Soc, (2015) 41, 375-380.

**CONFERENCES
& WORKSHOPS**

- Participant-speaker, On G-Drazin invertibility of operator matrices, M. sheibani, 54rd Annual International Conference, University of Zanjan. August 23-25.
- Invited speaker, Some results on generalized inverses of elements in rings and algebras, M. Sheibani, Noncommutative algebra and its applications ' Internatinal Seminar", May 9-13, 2022, Affiliation: Tarbiat Modares University.
- Participant-speaker, Generalized Inverse of Block Operator Matrices, M. Sheibani, 53rd Annual International Conference, University of Science and Technology of Mazandaran, 5-8 Sep 2022.
- Participant-speaker, The Group Inverse of a Block Complex Matrices, M. Sheibani, "Studies on Scientific Developments in Geometry, Algebra, and Applied Mathematics Webinar" organized by the Turkish Journal of Mathematics, M. Sheibani, 1-3 February 2022.
- Participant speaker, Generalized Drazin invertibility of anti-triangular block operator matrices, M. Sheibani, IPM, Weekly Seminar, June 2022.
- Participant-speaker, P-Hirano invertible matrices over local rings, Marjan Sheibani Abdolyousefi, 51th Annual Iranian Mathematics Conference, Kashan, 2021.
- Participant-speaker, Feebly Nil-Clean Matrix Rings, Marjan Sheibani Abdolyousefi, The First International Conference on Mathematics and Its Applications, Ahvaz, 2021.
- Participant speaker, Diagonal Matrix Reduction Over Rings, M. Sheibani Abdoyousefi, 26th Iranian Algebra Seminar, Kurdistan University, Kurdistan, Iran, 2019.
- Participant speaker, Elementary Matrix Reduction over Bezout Duo- Domains, M. Sheibani Abdoyousefi, M. Sheibani, 49th Annual Iranian Math Conf., Iran University of Science and Technology, Tehran, Iran, 2018.
- Participant-speaker, Some Results on Refinement rings, M. Sheibani, 45th Annual Iranian Math Conf., Semnan univ., Semnan, 2014.
- Participant, A Workshop on Leavitt Path Algebras and Graph C*-Algebras, University of Tehran, 2018.

HONORS

- Top Researcher at Semnan University in 2023.
- Top Researcher at Semnan University in 2022.
- Top Researcher at Semnan University in 2021.
- Top Researcher at Farzanegan University in 2020.
- Top Researcher at Farzanegan University in 2019.
- Top Researcher at Farzanegan University in 2018.

**JOURNALS
COLLABORATION**

▪ **Reviewer**

- American Math. Soc. (Mathematical Reviews)
- European Math. Soc. (Zentrablatt Mathematics).

▪ **Referee**

- Communications in Algebra
- Journal of Algebra and its Applications
- American Mathematical Monthly
- Karajua Journal of Mathematics and Statistics
- Open Math
- Bulletin of the Iranian Mathematics Society
- Mathematics Extension
- Journal of Algebraic System

[CV compiled on Sep 2024]