Burcu Çınarcı

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Education

December 2018, Ph.D. in Mathematics
Istanbul University, Department of Mathematics
Dissertation: *Irreducible character degrees and derived length*

June 2014, M.Sc. in Mathematics
Istanbul University, Department of Mathematics
Thesis: *Complex characters of finite groups*

June 2011, BS in Mathematics
Istanbul University, Department of Mathematics

May 2010, Pedagogical Formation Education Certificate
Istanbul University, Department of Mathematics

Employment

Fall 2022- Visiting Scholar
Texas State University, Department of Mathematics

Fall 2019- Assistant Professor
Piri Reis University, Department of Mathematics

Fall 2014-Fall 2019 Research Assistant
Piri Reis University, Department of Mathematics

Appointments, Awards and Scholarships

Visitor in the Department of Mathematics at Texas State University with TUBITAK 2219-International Postdoctoral Research Fellowship Program, 2022.

Visitor in the Department of Mathematics at Rijeka University with Erasmus Program, 2016.

Visitor in the Department of Mathematics at KU Leuven University with Erasmus Program, 2015.

Funding

Scientific Research Project of Piri Reis University: Classification of finite solvable groups with their irreducible complex characters, 2021-2022.

Scientific and Technological Research Council of Turkey (TUBITAK 1002): Classification of finite solvable groups having few imprimitive irreducible characters, 2020-2021.

Scientific Research Project of Istanbul University: Irreducible Character Degrees and Derived Length, 2016-2018.

Publications

- (with Thomas M. Keller) *The largest orbit sizes of linear group actions and abelian quotients*, submitted.
- (with Thomas M. Keller) *Linear group actions with at most three orbits of the largest size*, Monatsh. Math. (2023), accepted.
- *Finite Solvable Groups With Two Imprimitive Monolithic Characters*, J. Algebra Appl., (2023), accepted.
- *Monomial and monolithic characters of finite solvable groups*, Bull. Aust. Math. Soc., 105(3), 440-448, (2022).
- (with Temha Erkoç) *Finite solvable groups with few imprimitive irreducible characters*, J. Algebra Appl. with doi number 21(4), 2240066 (2022).
- (with Temha Erkoç) *A Study On the Kernels of Irreducible Characters of Finite Groups*, Cumhuriyet Science Journal, 43(3), 449-453, (2022).
- (with Temha Erkoç) *Solvable groups having primitive characters of degree two*, Hacettepe Journal of Mathematics and Statistics, 51(1) 228-234, (2022).
- (with Temha Erkoç) *Finite Groups Having Monolithic Characters of Prime Degree*, Duzce University Journal of Science and Technology, 9(4), 997 - 1001 (2021).
- (with Temha Erkoç) *Monolithic characters of real groups*, Comm. Algebra, 49(8), 3192-3199 (2021).
- (with Temha Erkoç) *A Note on the Isaacs-Seitz Conjecture*, Bull. Aust. Math. Soc., 103(2), 271-277 (2021).
- (with Temha Erkoç) *Irreducible constituents of products of characters*, Comm. Algebra, 47(12), 5398-5403 (2019).
- (with Temha Erkoç) *Real characters, monolithic characters and the Taketa inequality*, J. Algebra Appl., 18(10) 1950183 (2019).

Presentations

- *The Isaacs-Seitz Conjecture*, REU Seminars, Texas State University, Mathematics Department, San Marcos, TX, June 22, 2023.
- *Finite Groups Having Few Nonlinear Irreducible Characters*, The Zassenhaus Groups and Friends Conference Binghamton University, NY, June 2-4, 2023.
- *On the Taketa Problem*, Discrete Mathematics Seminars, Texas State University, Mathematics Department, San Marcos, TX, November 11, 2022.
- *Monolithic Characters of Finite Groups*, 7th Croation Mathematical Congress, Croatia, June 15-18, 2022.
- *Some Results on Character Degrees*, International Conference on Mathematics and Science (ICAMS-2022), Greece, August 30, 2022.
- *Classification of Solvable Groups Having Few Imprimitive Irreducible Characters*, 6th Biennial International Group Theory Conference, Vellore Institute of Technology, India, March 4-6, 2021.
- *On Product of Irreducible Characters*, Third International Conference of Mathematical Sciences, Istanbul, Turkey, September 4-8 2019.

- *Derived Length and Character Degrees*, International Conference of Young Mathematicians, Kyiv, Ukraine, 6-8 June 2019.
- *Monolithic Characters and Real Character*, Antalya Algebra Days XXI, Izmir, Turkey, 15-19 May 2019.
- *On the Taketa inequality*, The Mediterranean International Conference of Pure&Applied Mathematics and Related Areas, Antalya, Turkey, 26-29 October 2018.
- *Irreducible character degrees of a solvable group*, Istanbul University Mathematics Department General Seminars, Istanbul, Turkey, October 17, 2018.
- *Character degree graph of a finite group*, University of Rijeka Mathematics Department General Seminar, Croatia, June 21, 2016.