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CURRICULUM VITAE OF QINGHAI ZHONG

Personal data

- Citizenship: Chinese
- Languages: Chinese, English
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Education and Positions

- March 2014 – present, Postdoc (FWF-Project: Sets of Lengths in Krull monoids)
  Institute for Mathematics and Scientific Computing, University of Graz
- July 2013 – Feb. 2014, Assistant researcher
  Department of Mathematics, Shanghai Normal University
- Sep. 2008 – June 2013, Ph.D., Combinatorial Number Theory
  Center for Combinatorics, Nankai University
  Advised by Prof. Weidong Gao
- Sept. 2004 – June 2008, B.S. Degree, Pure Mathematics
  College of Mathematics, Sichuan University

Research Interests

- Combinatorial and Additive Number Theory: Zero-Sum Theory and Additive Problems (11P70, 11R27, 11B30, 11B50 20K01).
- Commutative Algebra : Non-unique Factorization Theory (11B30, 11R27, 13A05, 20M13).

Research Projects

- Additive Combinatorics and Arithmetic of Krull Monoids: Liese-Meitner project M1641-N26 (applicant from abroad: Q. Zhong; Austrian co-applicant: A. Geroldinger), March 2014 – Feb. 2016.
- Sets of lengths in Krull monoids: FWF: P 28864-N35 (As participate), March 2016 – June 2019.

List of Publications

1. On the Erdos-Ginzburg-Ziv constant of finite abelian groups of high rank,
   With Y. Fan and W. Gao,
   J. Number Theory, 131: 1864 – 1874, 2011.
2. On short zero-sum subsequences of zero-sum sequences,
   With Y. Fan, W. Gao, G. Wang, and J. Zhuang,
   Electron. J. Combin., 19(3): #P31, 2012.
3. A quantitative aspect of non-unique factorizations: the Narkiewicz constants III,
   With W. Gao and J. Peng,
   Acta Arith., 158: 271 — 285, 2013.
4. Remarks on Tiny Zero-sum Sequences,
   With Y. Fan, W. Gao, J. Peng, and L. Wang,
   Integers, 13: #A52, 2013.
5. Two zero-sum invarints on finite abelian groups,
   With Y. Fan, W. Gao, and L. Wang,
   European J. Combin., 34(8): 1331 – 1337, 2013.
6. The catenary degree of Krull monoids II,
   With A. Geroldinger,
   J. Aust. Math. Soc., 98(3): 324 — 354, 2015.
7. Subsequence sums of zero-sum free sequences over finite abelian groups,
   With Y. Qu, X. Xia, and L. Xue,
   Colloq. Math., 140: 119–127, 2015.
8. The set of minimal distances in Krull monoids,
   With A. Geroldinger,
   Acta Arith., 173: 97 – 120, 2016.
9. On the Erdős-Ginzburg-Ziv constant of groups of the form $C_2^r \oplus C_n$,
   With Y. Fan,
   Int. J. Number Theory, 12(4): 913 – 943, 2016.
10. The set of distances in seminormal weakly Krull monoids.
    With A. Geroldinger,
    J. Pure Appl. Algebra, 220: 3713 – 3732, 2016.

11. Products of k atoms in Krull monoids.
    With Y. Fan,
    Monatsh. Math., 181(4): 779 – 795, 2016.
12. A Characterization of class groups via sets of lengths II.
    With A. Geroldinger,
    J. Théor. Nombres Bordeaux, 29(2): 327 – 346, 2017.
13. Systems of sets of lengths: transfer Krull monoids versus weakly Krull monoids.
    With A. Geroldinger and W. Schmid,
    in Rings, Polynomials, and Modules, Springer 2017.
14. Sets of minimal distances and characterizations of class groups of Krull monoids.
    Ramanujan J., 45(3): 719 – 737, 2018.
15. Long sets of lengths with maximal elasticity.
    With A. Geroldinger,
    Canad. J. Math., 70: 1284 – 1318, 2018.
16. A characterization of finite abelian groups via sets of lengths in transfer Krull monoids,
    Comm. Algebra, 46: 4021 – 4041, 2018.
17. Sets of arithmetical invariants in transfer Krull monoids,
    With A. Geroldinger,
    J. Pure Appl. Algebra, 223 (2019), 3889-3918.
18. On the arithmetic of Mori monoids and domains,
    Glasg. Math. J. , to appear.
19. A characterization of seminormal C-monoids,
    With A. Geroldinger,
    Boll. Unione Ital. Mat., to appear.
20. On elasticities of locally finitely generated monoids,
    J. Algebra, to appear.
21. On minimal product-one sequences of maximal length over Dihedral and Dicyclic groups.,
    With Jun Seok Oh
    Commun. Korean Math. Soc., to appear.

Organization of Conferences

- Combinatorial and Additive Number Theory, Graz, January 4–8, 2016 (jointly with A. Geroldinger, A. Reinhart, and D. Smertnig).
- Conference on Rings and Factorizations, Graz, February 19–23, 2018 (jointly with A. Geroldinger, J. Oh, and S. Tringali).

Scientific conferences and Seminars since 2015

- Seminar for algebra and functional analysis
  University of Ljubljana, Slovenia, December 20, 2018
  Talk: Factorization theory in Krull monoids
- *AMS Special Session: Additive Combinatorics including its interplay with factorization theory*
  Fudan University, Shanghai, China, June 11–14, 2018
  Talk: Krull monoids and Additive Combinatorics
- 30th Journées Arithmétiques
  University of Caen, Caen, France, July 3–7, 2017
  Talk: The set of minimal distances and Characterization of class groups
- Palaiseau Days on Additive Combinatorics
  École polytechnique, Pari, France, June 29–30 2017
  Talk: The set of minimal distances and Characterization of class groups in Krull monoids
- Algebra and Number Theory Seminar
  Uni Graz, Austria, October 27, 2016
  Talk: Sets of minimal distances and Characterizations of class groups of Krull monoids
- Triveni Number Theory Meet @ HRI
  HRI, Allahabad, India, March 4—8, 2016
  Talk: Sets of lengths in Krull momoids
- Algebra and Number Theory Seminar
  Uni Graz, Austria, October 29, 2015
  Talk: A characterization of class groups via sets of lengths
- Additive Combinatorics in Marseille
  CIRM, Marseille, France, September 7–11, 2015
  Talk: The set $\Delta^*(G)$ of minimal distances

- 29th Journées Arithmétiques

  University of Debrecen, Debrecen, Hungary, July 5–10, 2015

  Talk: The set of minimal distances in Krull monoids