# Chang Lv

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### Education

2010–2015 **Ph.D.**, Academy of Mathematics and Systems Science, CAS, Beijing, China,

- Degree major: Applied Mathematics, Adviser: Prof. Zhexian Wan and Yingpu Deng.
- Thesis: Primality tests, ring class fields and diophantine equations, 2015

2006–2010 B.S., Nankai University, Tianjin, China,

• Degree major: Mathematics and Applied Mathematics.

## Area of research

I am interested in algebraic number theory and arithmetic geometry.

# **Fundings**

01/2018-12/2020 Existence of integral points on quadratic norm form equations over global fields and applications, NNSF of China (Grants No. 11701552)

#### **Publications**

- [DL15] Yingpu Deng and Chang Lv, *Primality test for numbers of the form*  $Ap^n + w_n$ , Journal of Discrete Algorithms **33** (2015), 81–92.
- [LD15] Chang Lv and Yingpu Deng, *On orders in number fields: Picard groups, ring class fields and applications*, Science China Mathematics **58** (2015), no. 8, 1627–1638.
- [LL17] Chang Lv and Jianing Li, *On the non-existence of certain classes of generalized bent functions*, IEEE Transactions on Information Theory **63** (2017), no. 1, 738–746.
- [LSD18] Chang Lv, Junchao Shentu, and Yingpu Deng, *On the integral representation of binary quadratic forms and the Artin condition*, Tokyo J. Math. **41** (2018), no. 2, 371–384. MR 3908800
- [Lv17] Chang Lv, On the non-existence of certain classes of perfect p-ary sequences and perfect almost p-ary sequences, IEEE Transactions on Information Theory **63** (2017), no. 8, 5350–5359.
- [Lv18] \_\_\_\_\_\_, Nonexistence of generalized bent functions and the quadratic norm form equations, arXiv preprint arXiv:1804.01292 (2018), 1–13.
- [Lv20a] \_\_\_\_\_, Diophantine equations defined by binary quadratic forms over rational function fields, Acta Arith. **196** (2020), no. 1, 35–51. MR 4129970

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[Lv20b]	, A note on the Brauer group and the Brauer-Manin set of a product, Bull. Lond. Math. Soc. <b>52</b> (2020), no. 5, 932–941. MR 4171413
[Lv21]	, The second descent obstruction and gerbes, arXiv preprint arXiv:2009. 06915v2 (2021), 1–31.
[Lv22]	, On commutative diagrams consisting of low term exact sequences, arXiv preprint arXiv:2112.14386v2 (2022), 1–9.
[LW23]	Chang Lv and Han Wu, <i>The Brauer-Manin obstruction on algebraic stacks</i> , arXiv preprint arXiv:2306.14426v2 (2023), 1–16.
[WL22]	Han Wu and Chang Lv, <i>Genus one half stacky curves violating the local-global principle</i> , arXiv preprint arXiv:2203.05810 (2022), 1–5.
[YL18]	Hairong Yi and Chang Lv, <i>On ring class fields of number rings</i> , arXiv preprint arXiv: 1810.04810 (2018), 1–17.

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