

# CHANG LV'S HOME PAGE

CHANG LV  
ASSOCIATED PROFESSOR

## 1. HOME

My research interest includes number theory and arithmetic geometry.

Here is my CV.

List of my preprints on arXiv.

My profile on MathSciNet (need access).

My ORCID identifier.

## PUBLICATIONS AND PREPRINTS

- [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
- [Lv20b] ———, *A note on the Brauer group and the Brauer-Manin set of a product*, Bull. Lond. Math. Soc. **52** (2020), no. 5, 932–941. MR 4171413
- [Lv21] ———, *The second descent obstruction and gerbes*, arXiv preprint arXiv: 2009.06915 (2021), 1–31.
- [YL18] Hairong Yi and Chang Lv, *On ring class fields of number rings*, arXiv preprint arXiv:1810.04810 (2018), 1–17.

## 2. TALKS

- (1) May 28, 2021, Obstructions to local-global principle, In Prof. Yingpu Deng's 50th birthday, AMSS, scanned.
- (2) May 21, 2021, Quadratic diophantine equations over function fields, In 10th Finite fields and its applications, Luoyang, slides.
- (3) May 27, 2020, Rational points on varieties: an introduction, In 10th Finite fields and its applications, Luoyang, scanned.

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Date: July 6, 2021.

### 3. COLLABORATORS

Yingpu Deng, Jianing Li, Dongdai Lin, Junchao Shentu, Jiejing Wen, Hairong Yi, Yuqing Zhu, Jincheng Zhuang

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