

# CHANG LV'S HOME PAGE

CHANG LV  
ASSOCIATE 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:2009.06915v2 (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, *The Brauer-Manin obstruction on algebraic stacks*, arXiv preprint arXiv:2306.14426v2 (2023), 1–16.
- [WL22] Han Wu and Chang Lv, *Genus one half stacky curves violating the local-global principle*, arXiv preprint arXiv:2203.05810 (2022), 1–5.
- [YL18] Hairong Yi and Chang Lv, *On ring class fields of number rings*, arXiv preprint arXiv:1810.04810 (2018), 1–17.

## 2. TALKS

- (1) Dec 22, 29, 2022; Jan 5, 12, 19, Feb 16, 23, Mar 2, 2023, Obstructions to local-global principle of algebraic stacks, Invited by Jianing Li (SDU), Online, scanned1, scanned2, scanned3, scanned4, scanned5, scanned6, scanned7, scanned8.

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*Date:* July 30, 2023.

- (2) May 28, 2021, Obstructions to local-global principle, In a conference to celebrate the 50th birthday of Professor Yingpu Deng, AMSS, scanned1.
- (3) May 21, 2021, Quadratic diophantine equations over function fields, In 10th Finite fields and its applications, Luoyang, slides1.
- (4) May 27, 2020, Rational points on varieties: an introduction, Invited by Yanbin Pan, AMSS, scanned1.

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### 3. COLLABORATORS

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

STATE KEY LABORATORY OF INFORMATION SECURITY (SKLOIS),, INSTITUTE OF INFORMATION ENGINEERING (IIE),, CHINESE ACADEMY OF SCIENCES (CAS),, BEIJING 100093, P.R. CHINA

*Email address:* lvchang@amss.ac.cn, lvchang@iie.ac.cn