

1 First Section

A good math book [2], a rainy day and a pot of tea.

I translated one of Uchiyama's 1954 papers [3], though I don't speak French (or Japanese).

My image set counting algorithm was originally based on Lauder and Wan's point counting algorithm [1], but this algorithm is no longer the fastest general purpose algorithm known.

References

- [1] Alan G. B. Lauder and Daqing Wan. Counting points on varieties over finite fields of small characteristic. In J.P. Buhler and P. Stevenhagen, editors, *Algorithmic Number Theory*, pages 579 – 612. Cambridge University Press, 2008.
- [2] Rudolf Lidl and Harald Niederreiter. *Finite Fields*. Cambridge University Press, 1997.
- [3] Saburô Uchiyama. Sur le nombre des valeurs distinctes d'un polynôme à coefficients dans un corps fini. *Proceedings of the Japan Academy*, 30:930–933, 1954.