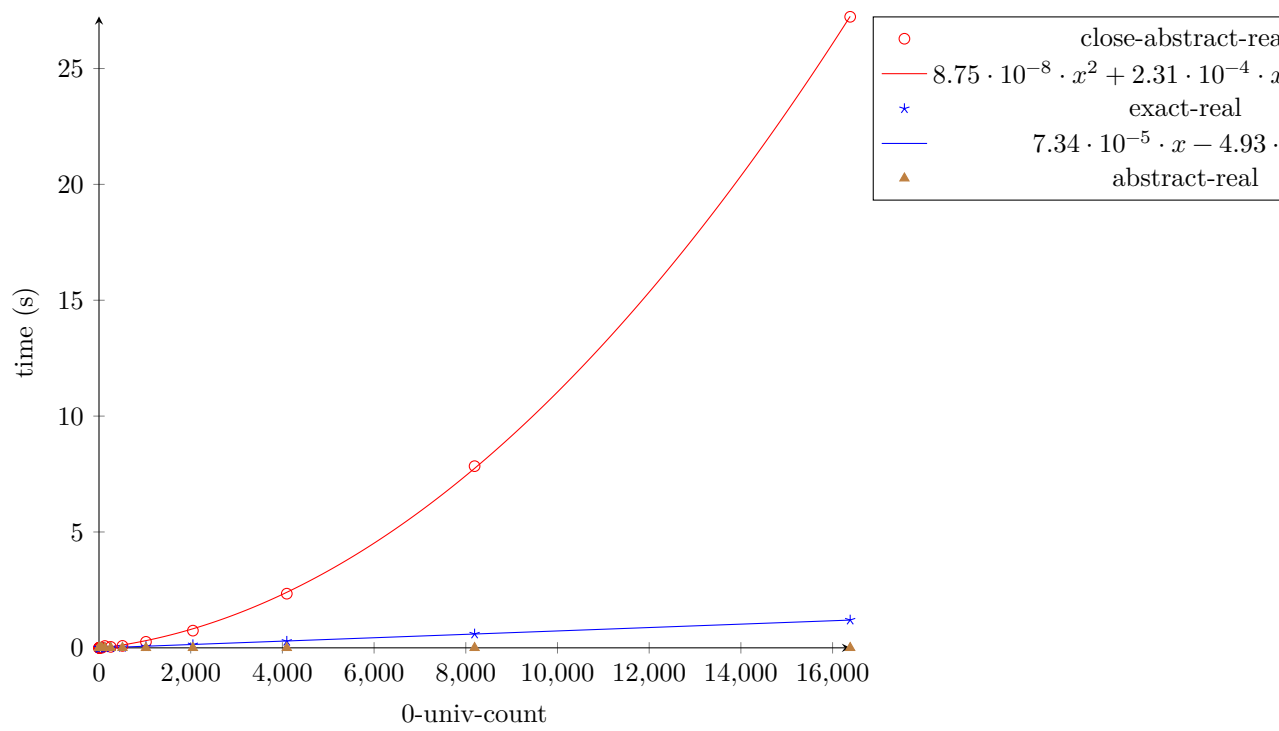Figure 1: timing-pattern

1

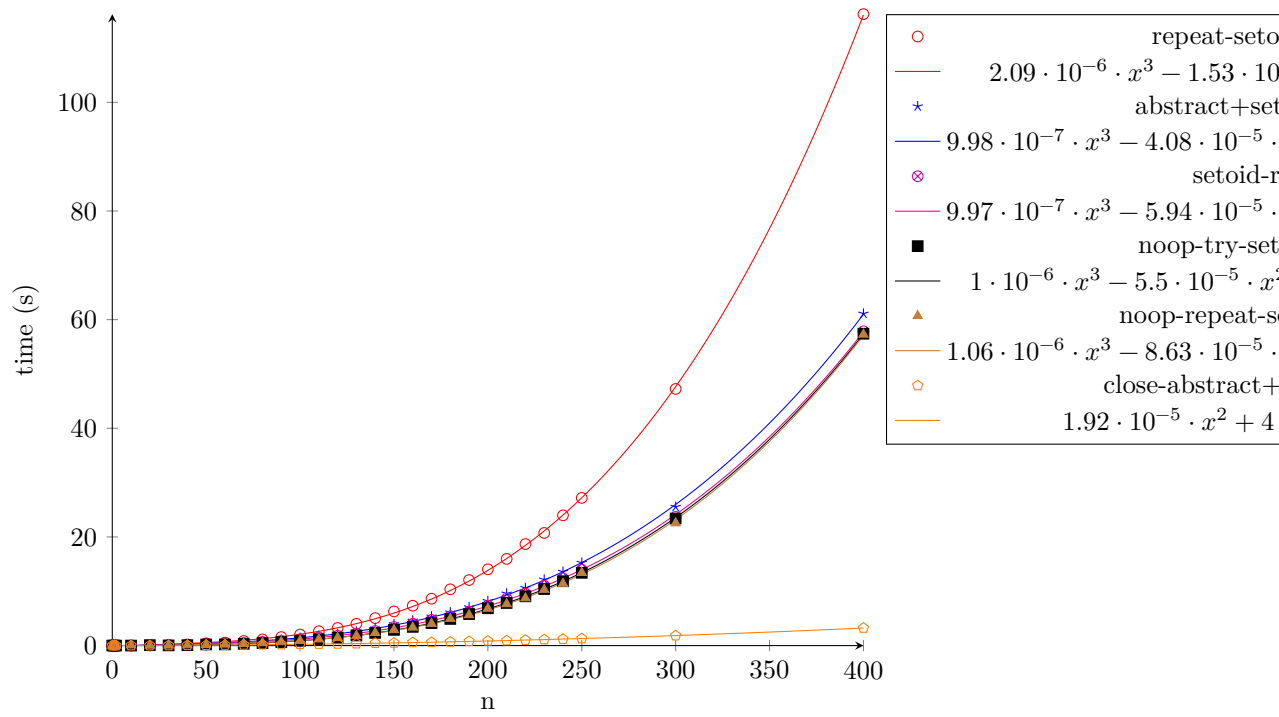Figure 2: timing-n-polymorphic-universes param-1-n 0

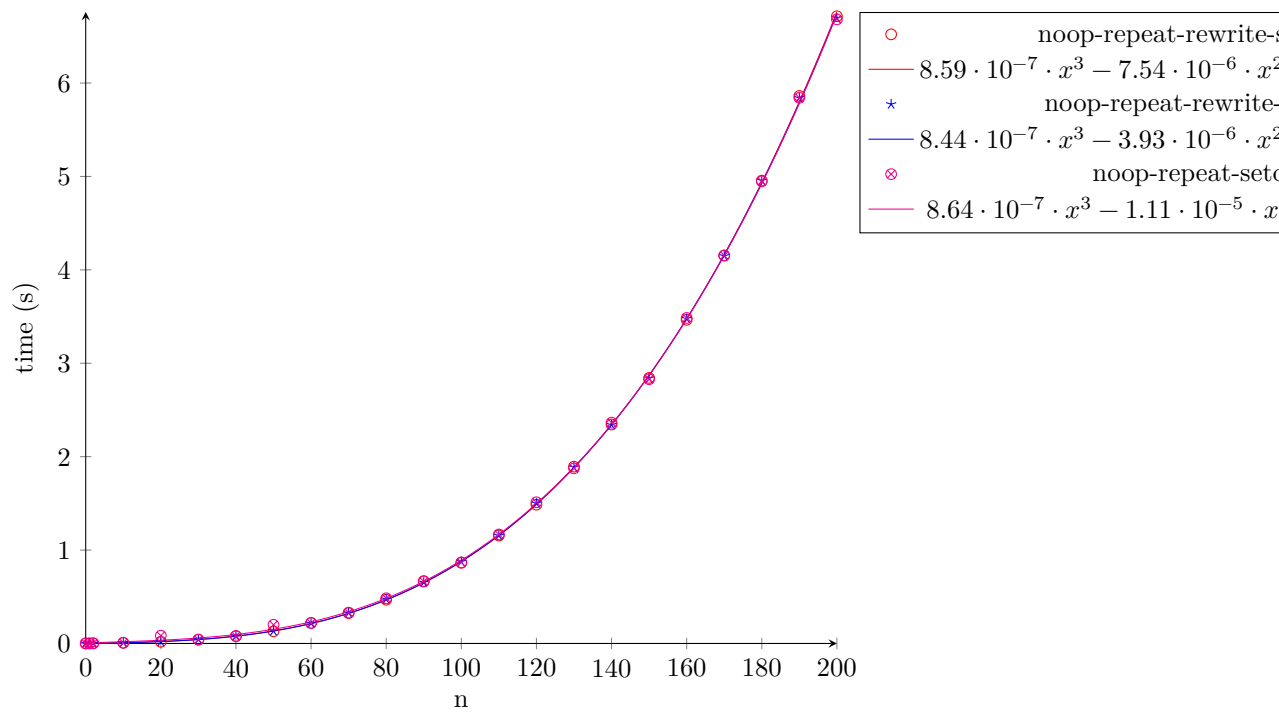Figure 3: timing-repeat-setoid-rewrite-under-binders

3

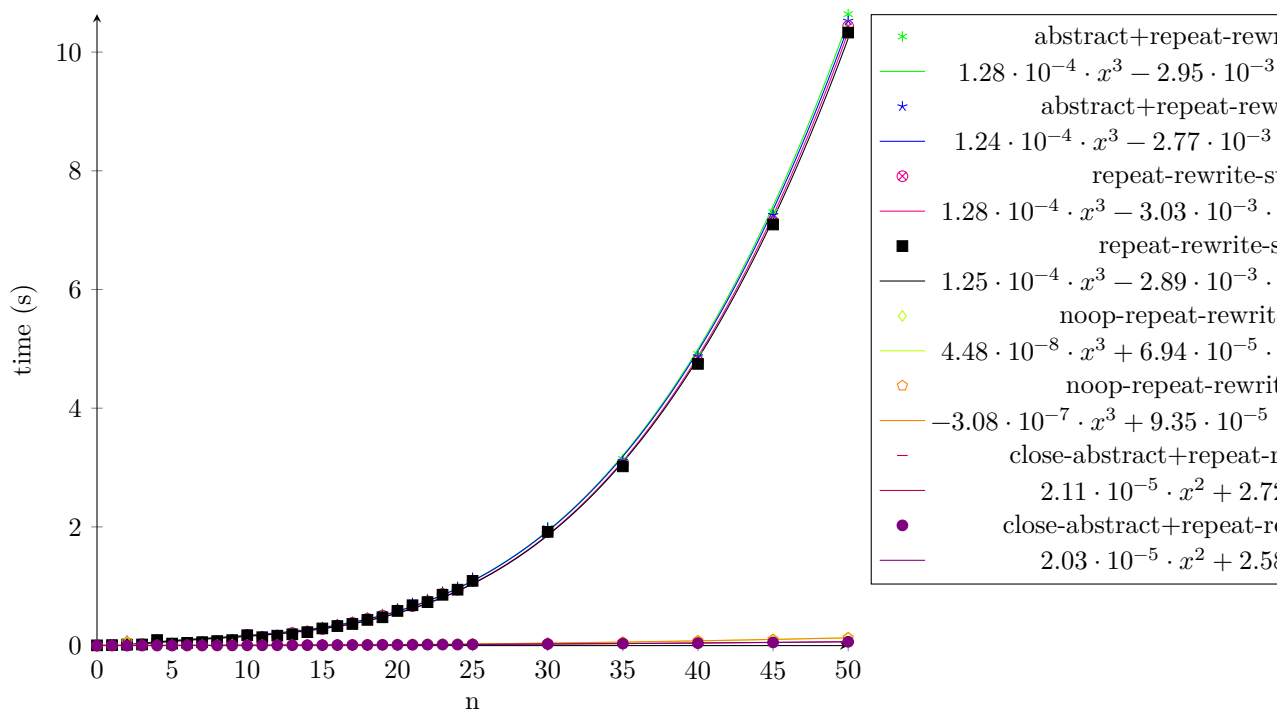Figure 4: timing-repeat-setoid-rewrite-under-binders-noop

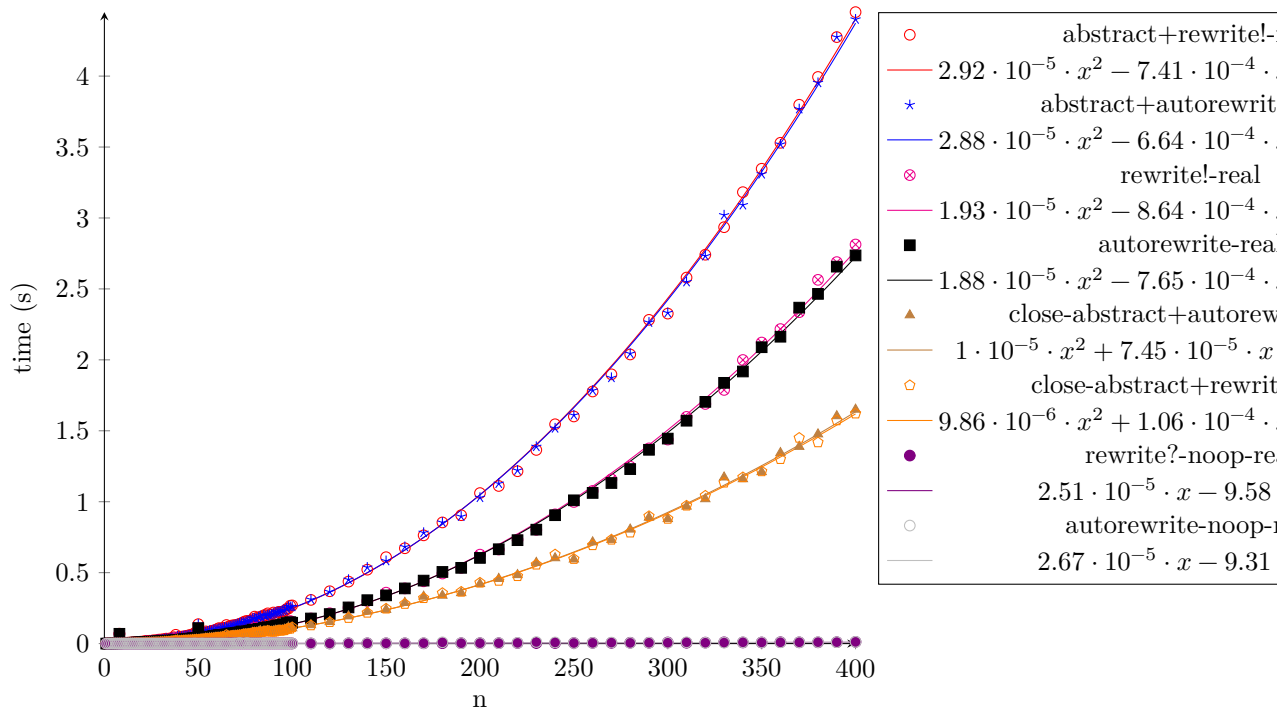Figure 5: timing-rewrite-strat-under-binders
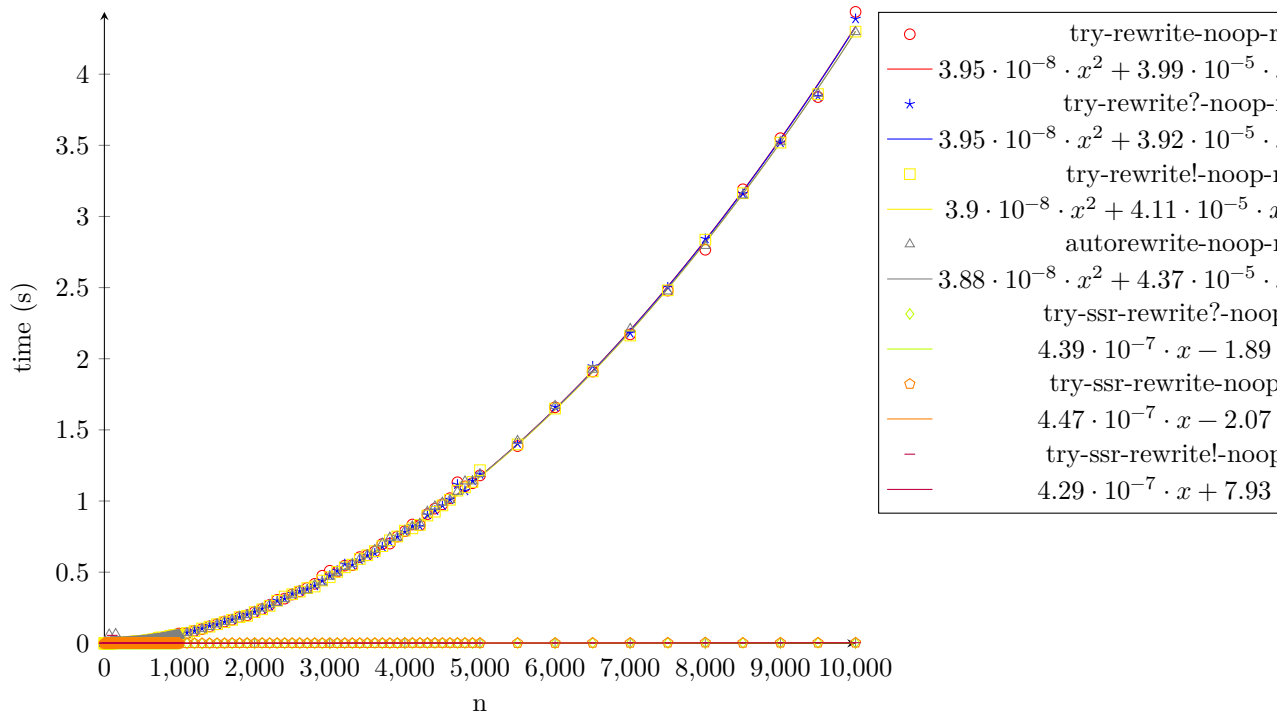
Figure 6: timing-rewrite-repeated-app-autorewrite

The legend entries and fit equations visible:

- abstract+rewrite!-
  $2.92 \cdot 10^{-5} \cdot x^2 - 7.41 \cdot 10^{-4} \cdot$
- abstract+autorewrit
  $2.88 \cdot 10^{-5} \cdot x^2 - 6.64 \cdot 10^{-4} \cdot$
- rewrite!-real
  $1.93 \cdot 10^{-5} \cdot x^2 - 8.64 \cdot 10^{-4} \cdot$
- autorewrite-real
  $1.88 \cdot 10^{-5} \cdot x^2 - 7.65 \cdot 10^{-4} \cdot$
- close-abstract+autorew
  $1 \cdot 10^{-5} \cdot x^2 + 7.45 \cdot 10^{-5} \cdot x$
- close-abstract+rewrit
  $9.86 \cdot 10^{-6} \cdot x^2 + 1.06 \cdot 10^{-4} \cdot$
- rewrite?-noop-re
  $2.51 \cdot 10^{-5} \cdot x - 9.58$
- autorewrite-noop-
  $2.67 \cdot 10^{-5} \cdot x - 9.31$

6

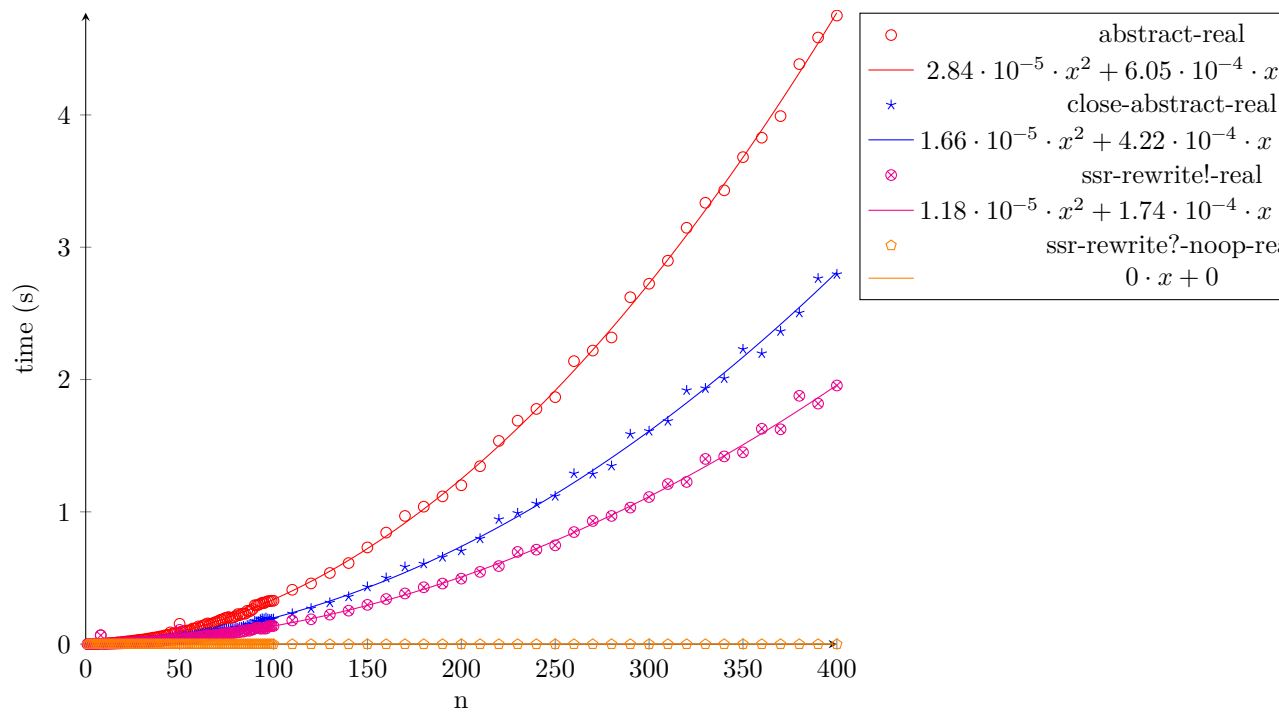Figure 7: timing-rewrite-repeated-app-autorewrite-noop

7

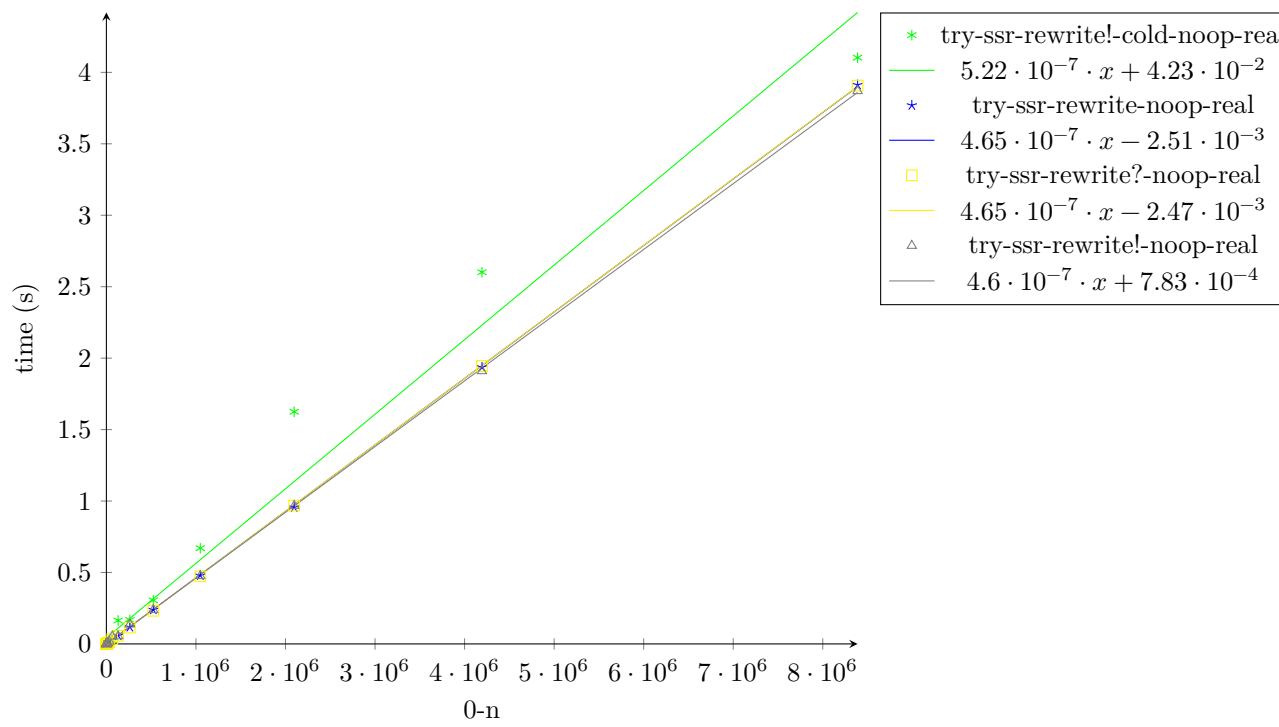Figure 8: timing-rewrite-repeated-app-ssrrewrite

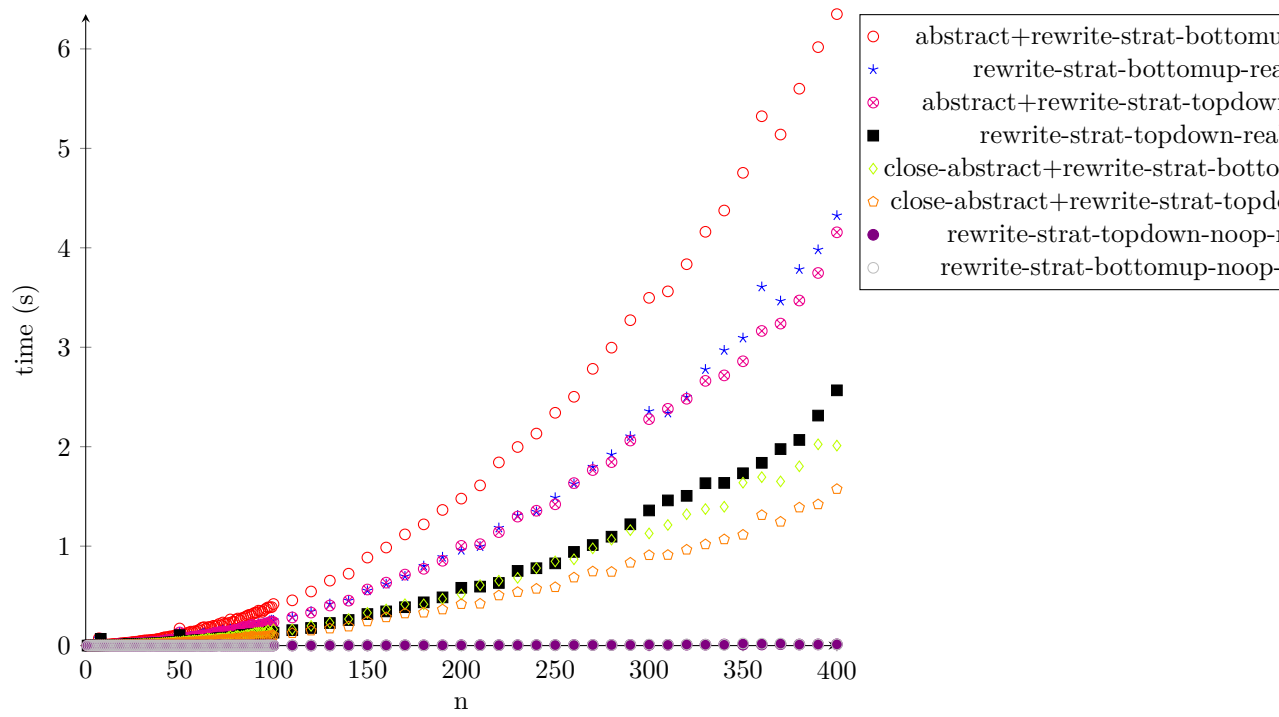Figure 9: timing-rewrite-repeated-app-ssrrewrite-noop param-1-lgn   1

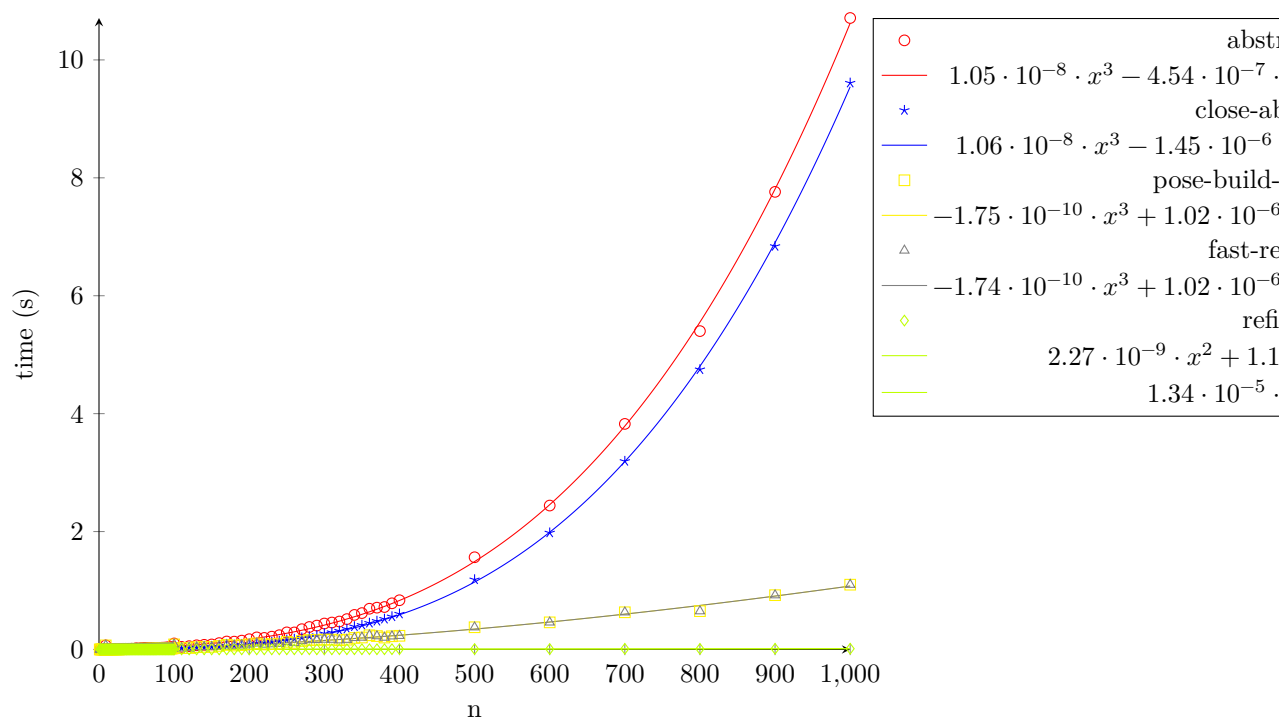Figure 10: timing-rewrite-repeated-app-rewrite-strat
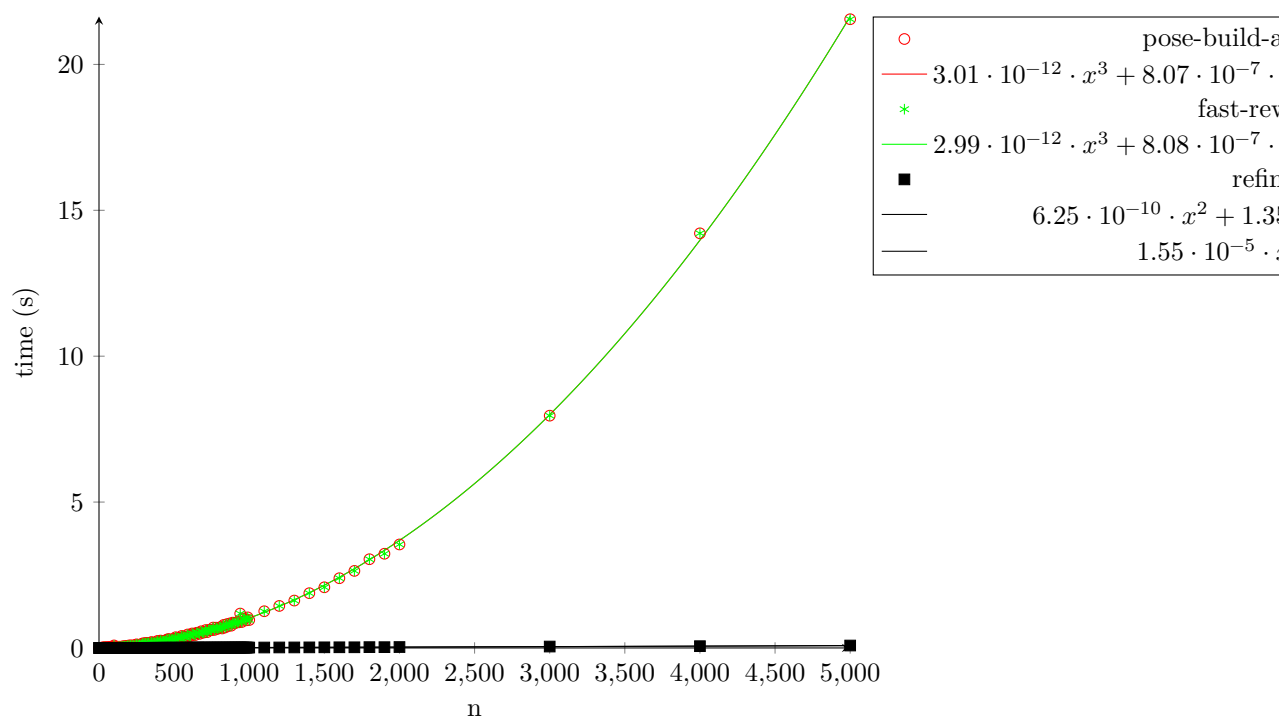
Figure 11: timing-rewrite-repeated-app-fast-rewrite

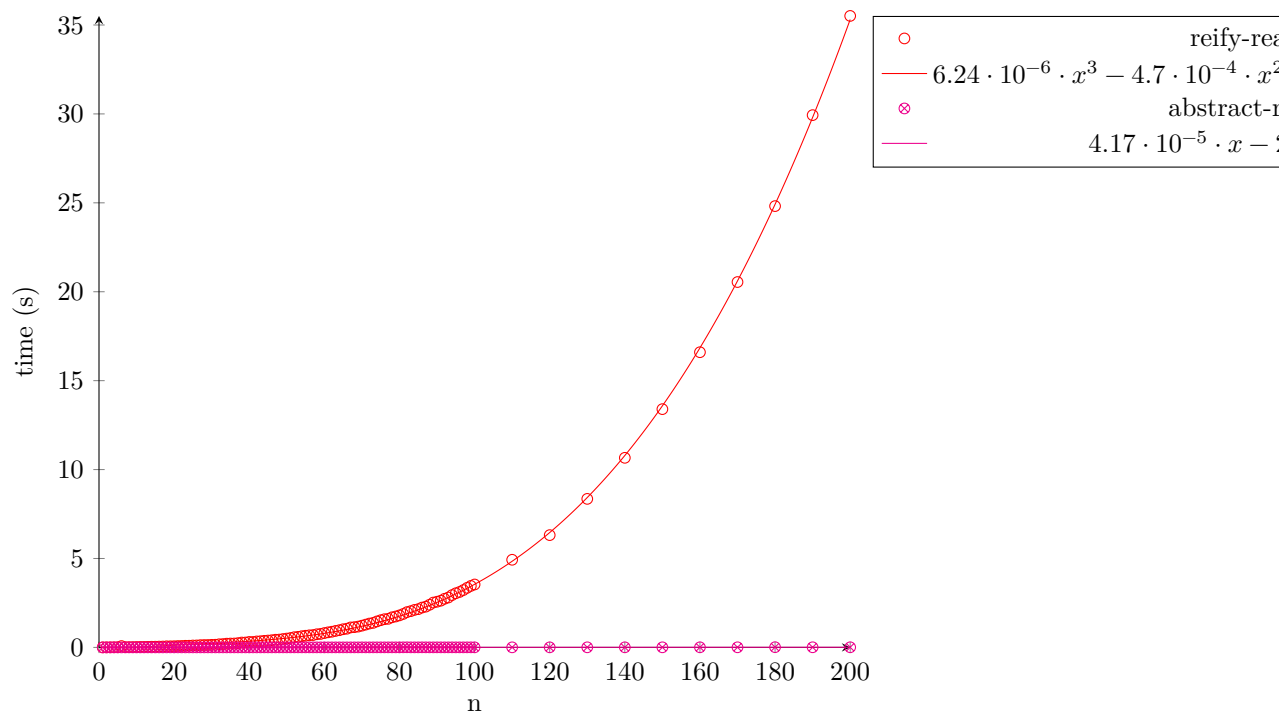Figure 12: timing-rewrite-repeated-app-fast-rewrite-no-abstract
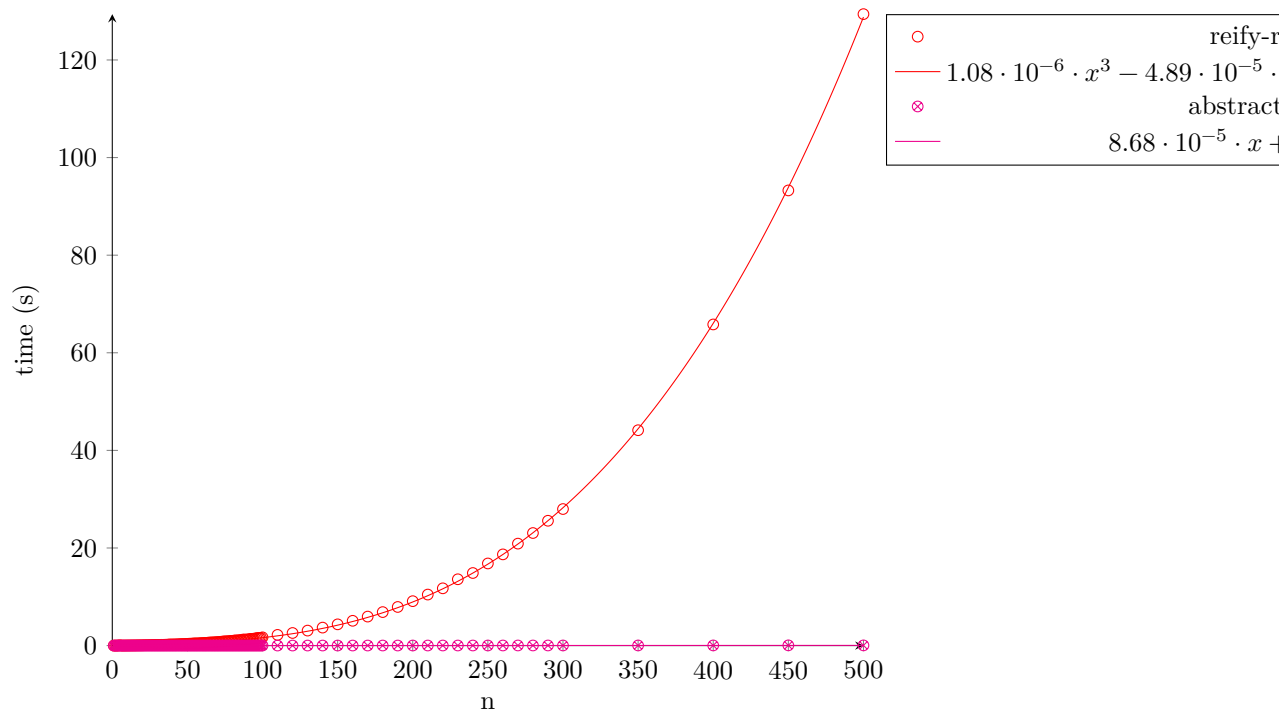
Figure 13: timing-typeclass-reification-let-in-HOAS

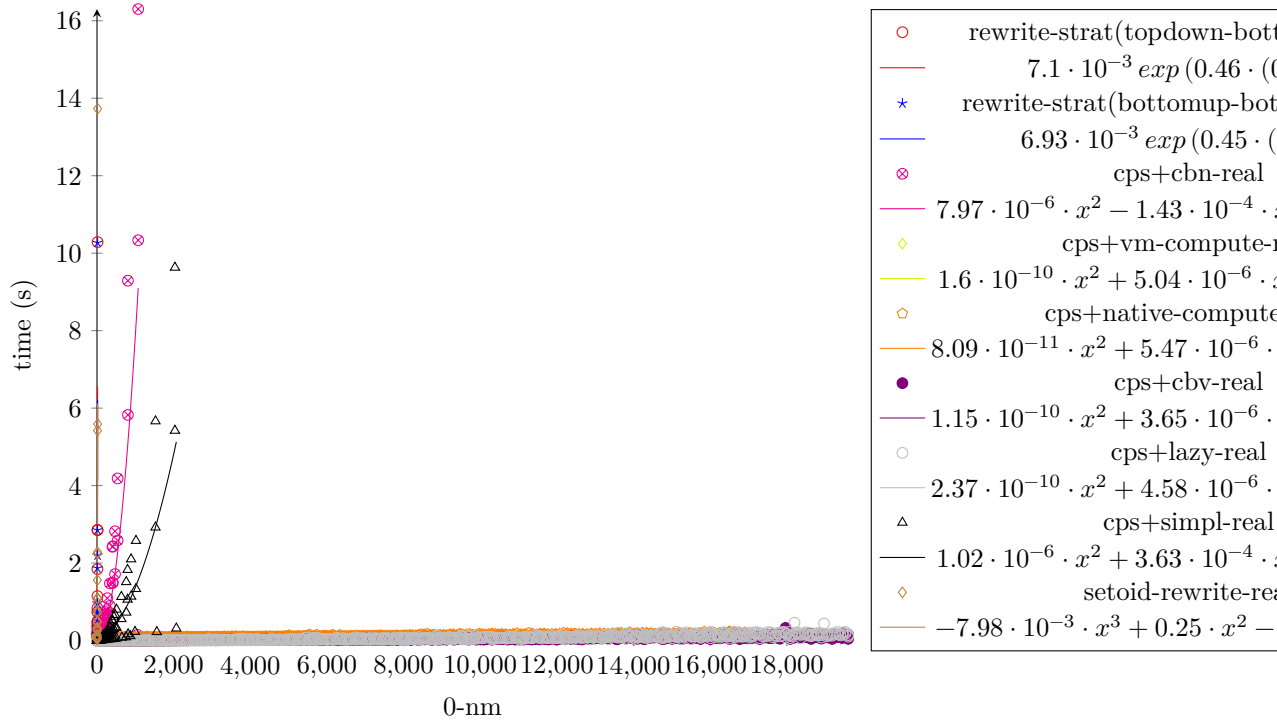Figure 14: timing-typeclass-reification-let-in-PHOAS

14

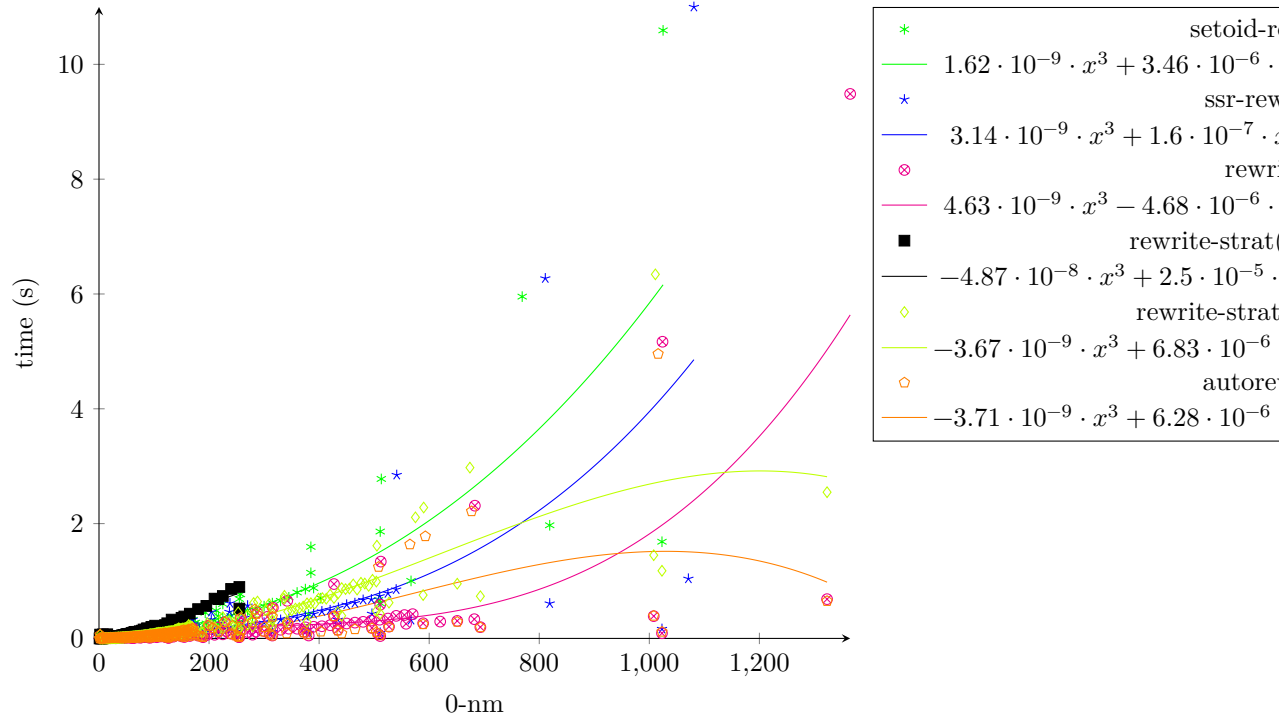Figure 15: timing-rewrite-lift-lets-map param-1-n 1, param-2-m 1

Figure 16: timing-rewrite-plus-0-tree param-1-n   0, param-2-m   1, param-3-input-size  5, param-4-output-size  3, param-5-num-rewrites  1
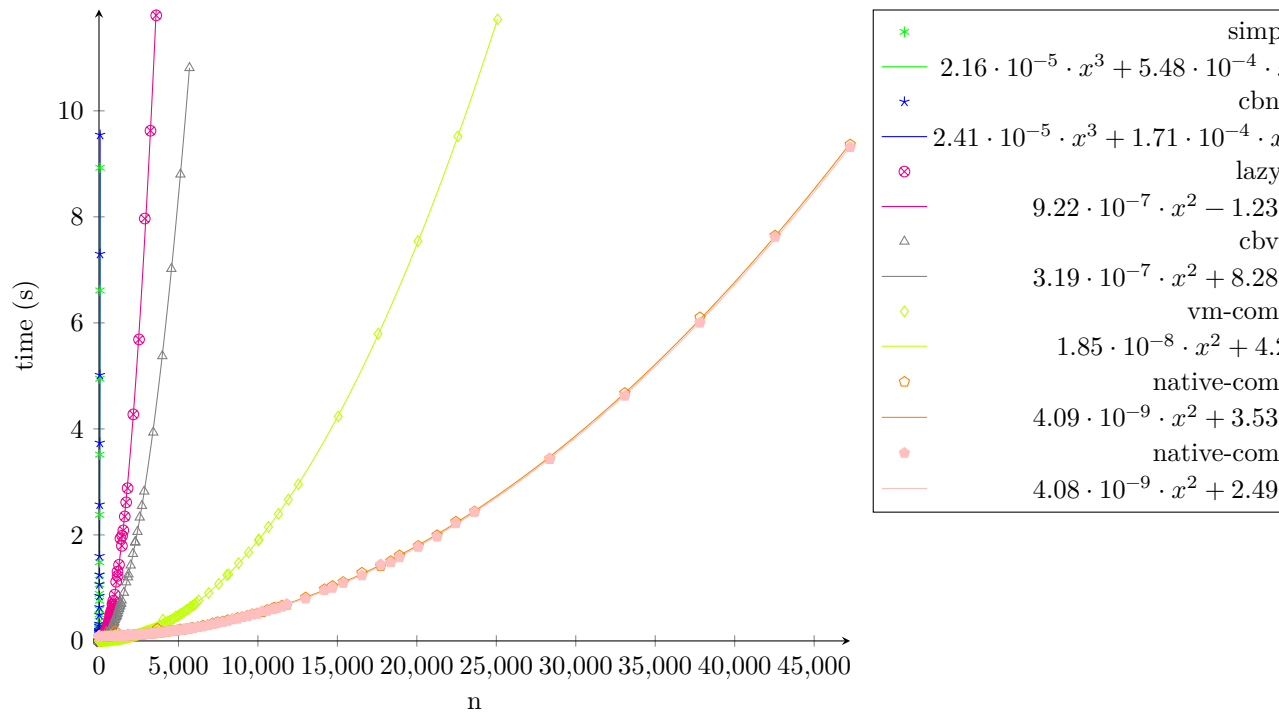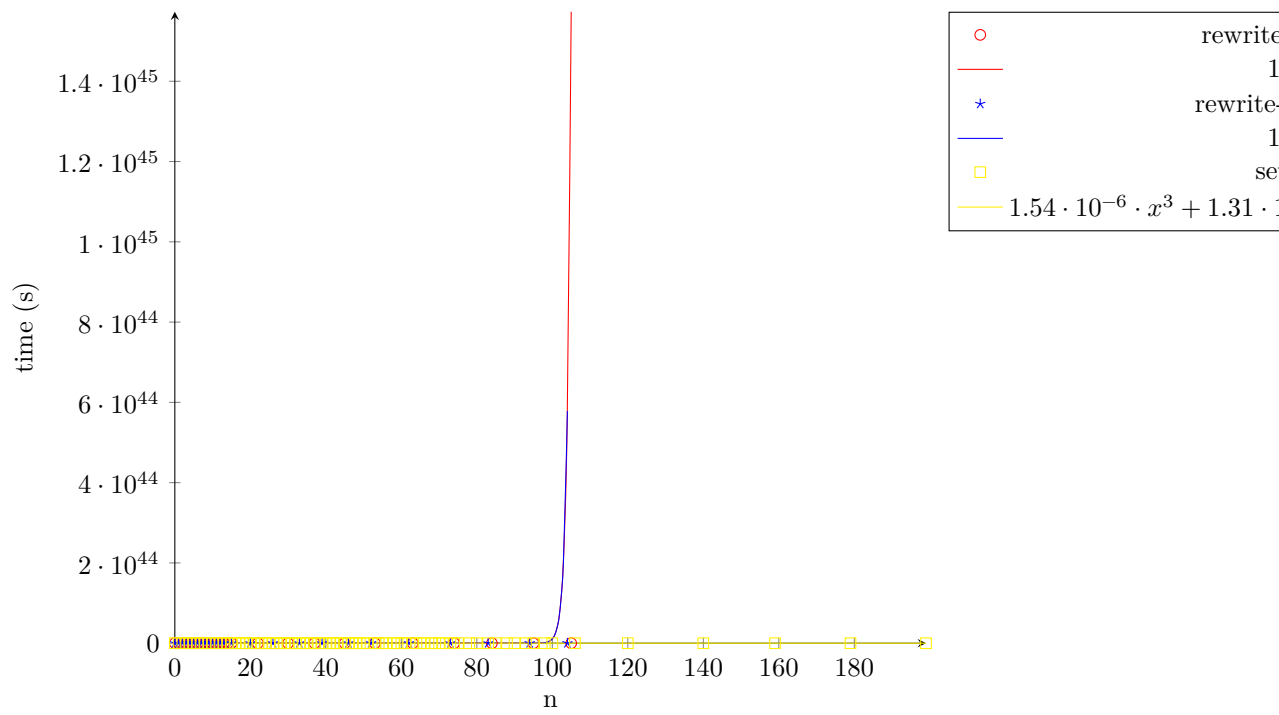
Figure 17: timing-sieve-of-eratosthenes

Figure 18: timing-rewrite-under-lets-plus-0