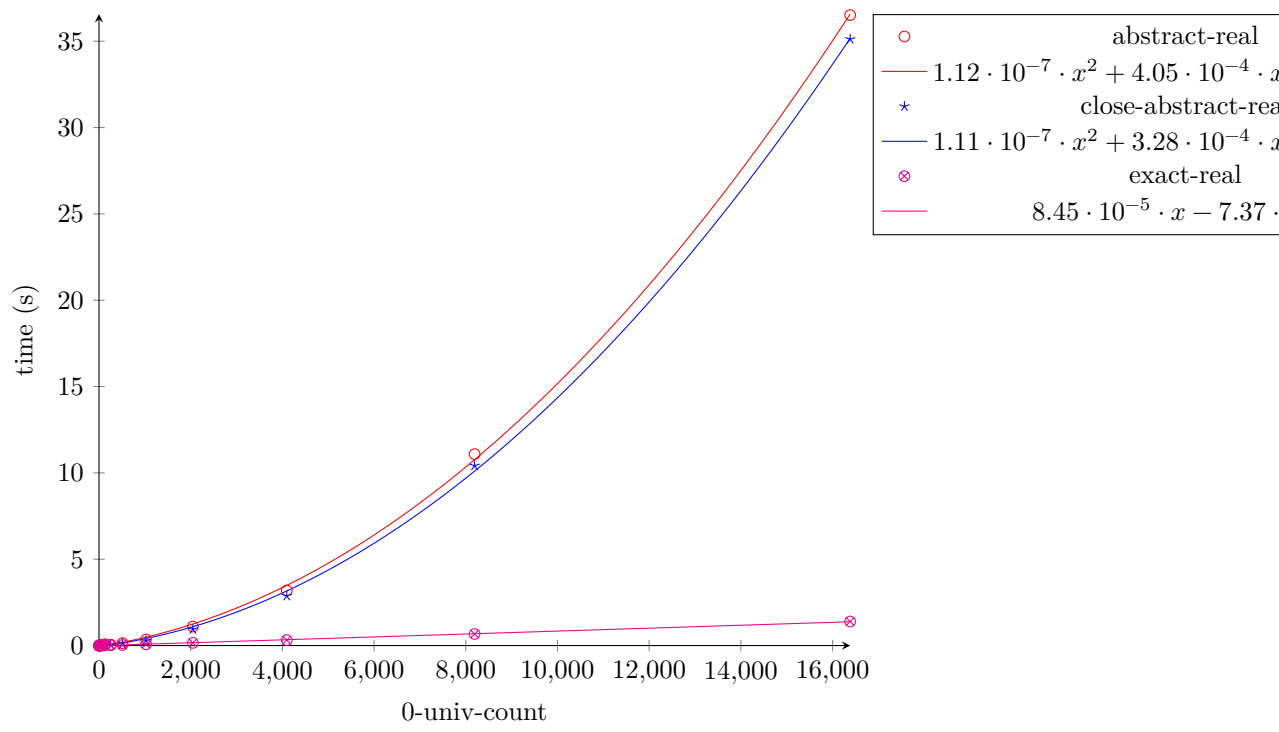Figure 1: timing-pattern

Figure 2: timing-n-polymorphic-universes param-1-n 0
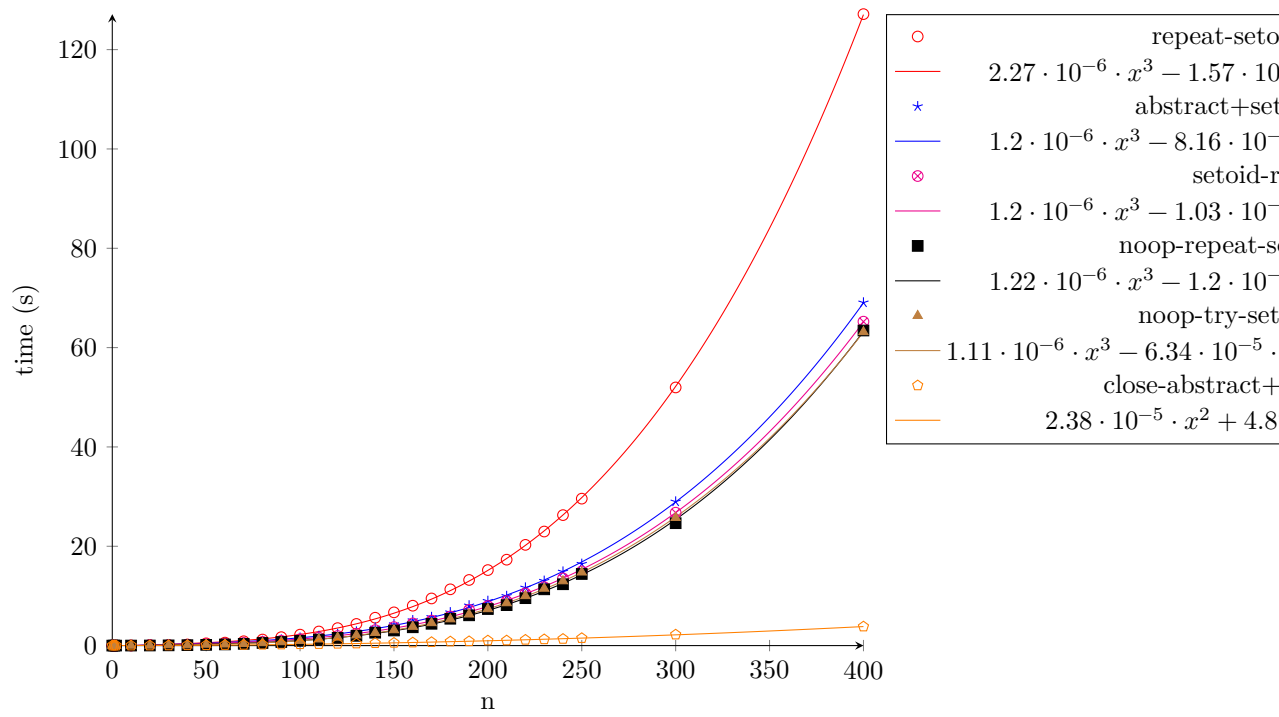
Figure 3: timing-repeat-setoid-rewrite-under-binders
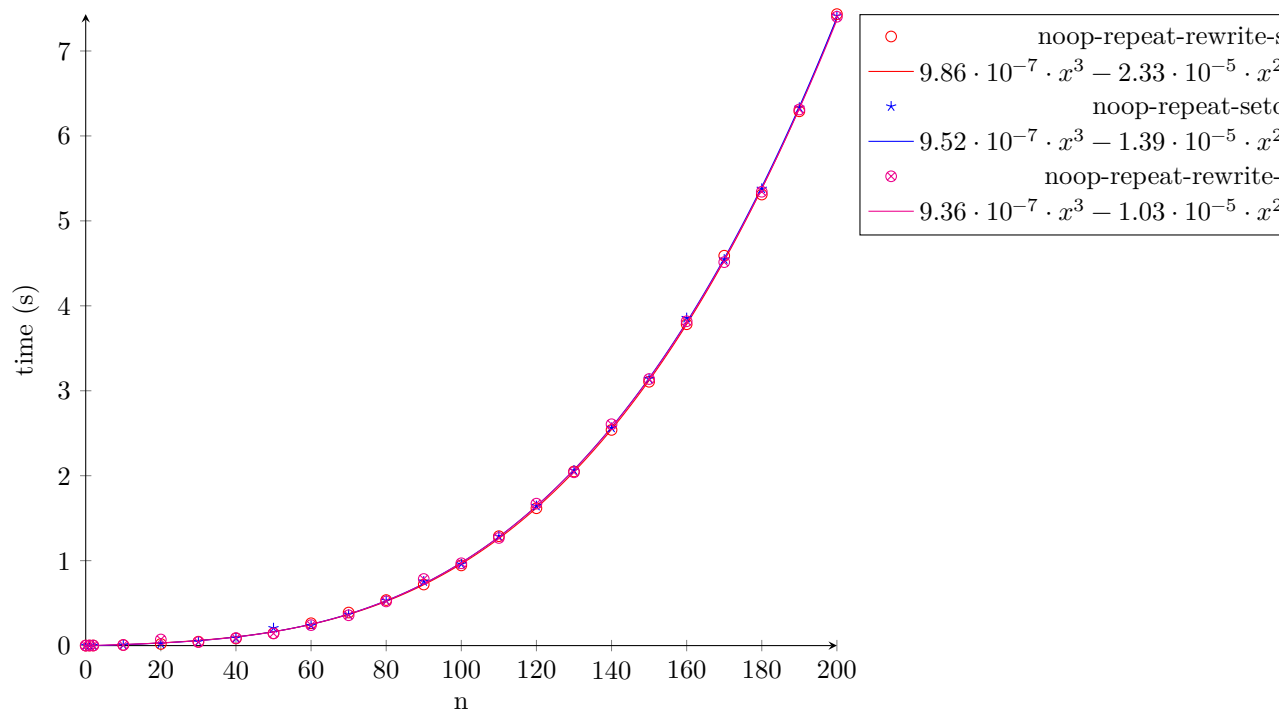
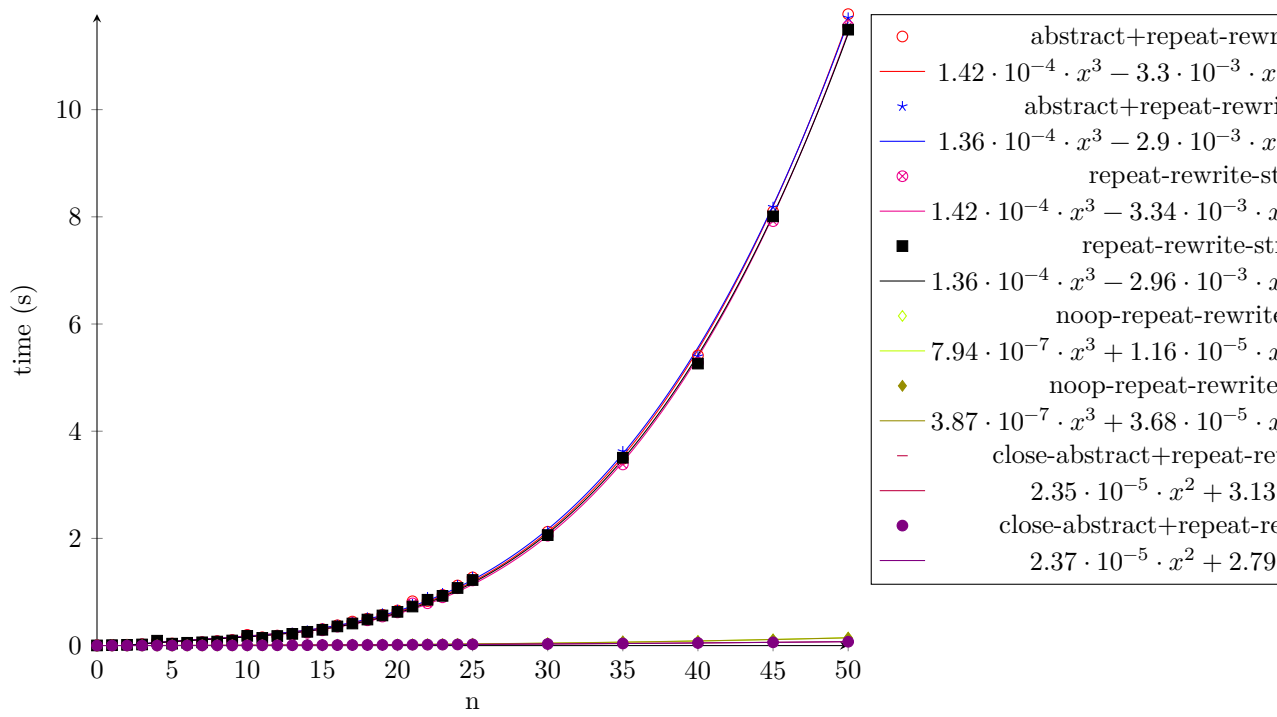Figure 4: timing-repeat-setoid-rewrite-under-binders-noop

4

Figure 5: timing-rewrite-strat-under-binders

The plot legend (partially cut off) reads:

- abstract+repeat-rewr...
  $1.42 \cdot 10^{-4} \cdot x^3 - 3.3 \cdot 10^{-3} \cdot x$
- abstract+repeat-rewri...
  $1.36 \cdot 10^{-4} \cdot x^3 - 2.9 \cdot 10^{-3} \cdot x$
- repeat-rewrite-st...
  $1.42 \cdot 10^{-4} \cdot x^3 - 3.34 \cdot 10^{-3} \cdot x$
- repeat-rewrite-str...
  $1.36 \cdot 10^{-4} \cdot x^3 - 2.96 \cdot 10^{-3} \cdot x$
- noop-repeat-rewrite...
  $7.94 \cdot 10^{-7} \cdot x^3 + 1.16 \cdot 10^{-5} \cdot x$
- noop-repeat-rewrite...
  $3.87 \cdot 10^{-7} \cdot x^3 + 3.68 \cdot 10^{-5} \cdot x$
- close-abstract+repeat-r...
  $2.35 \cdot 10^{-5} \cdot x^2 + 3.13$
- close-abstract+repeat-r...
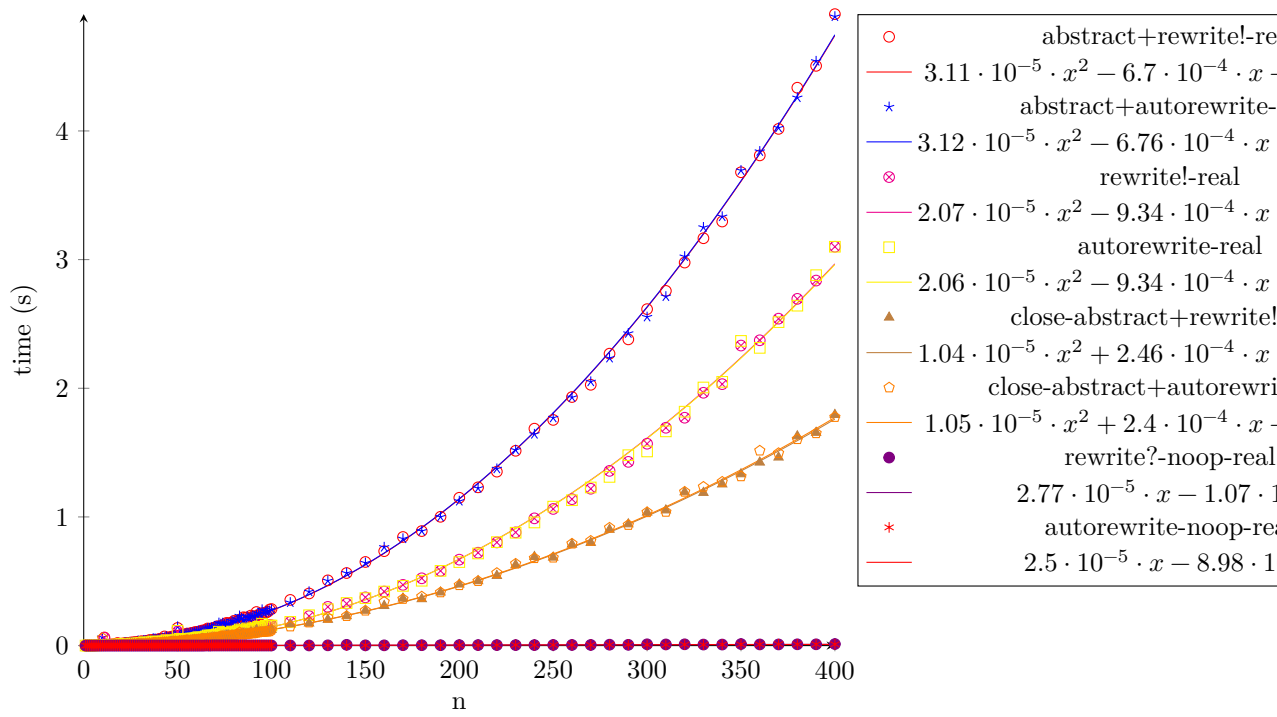 $2.37 \cdot 10^{-5} \cdot x^2 + 2.79$

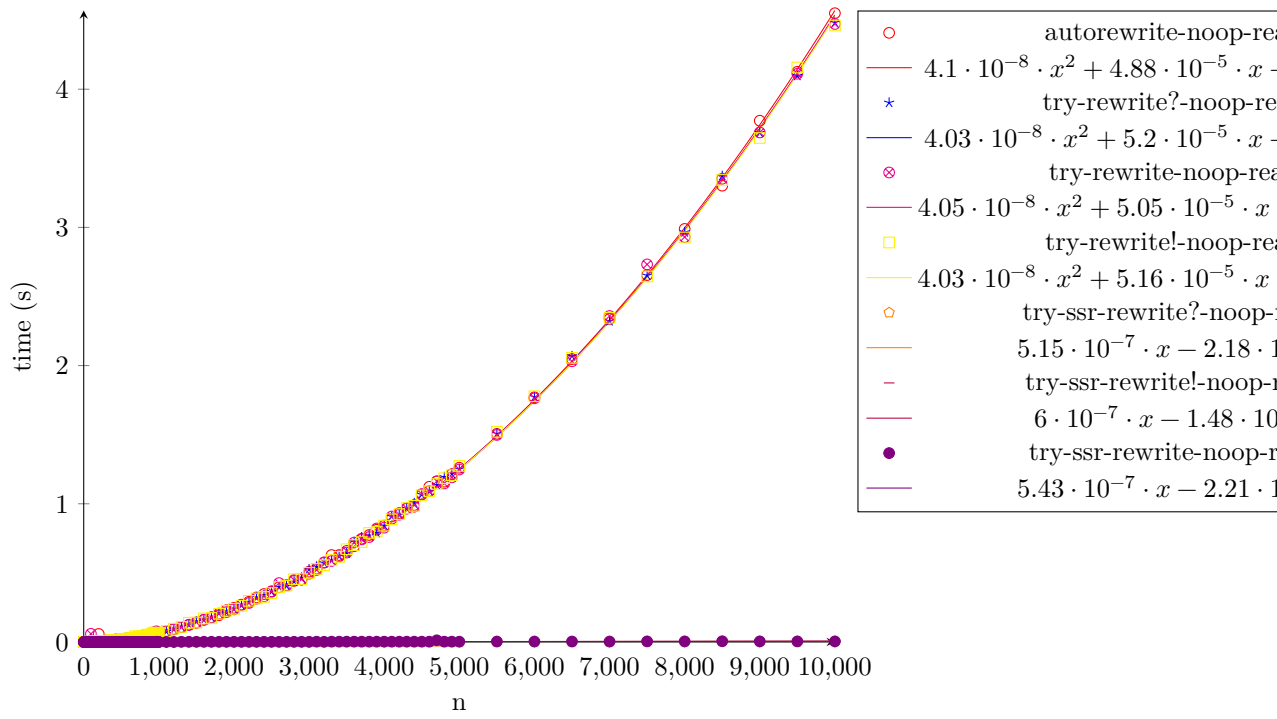Figure 6: timing-rewrite-repeated-app-autorewrite

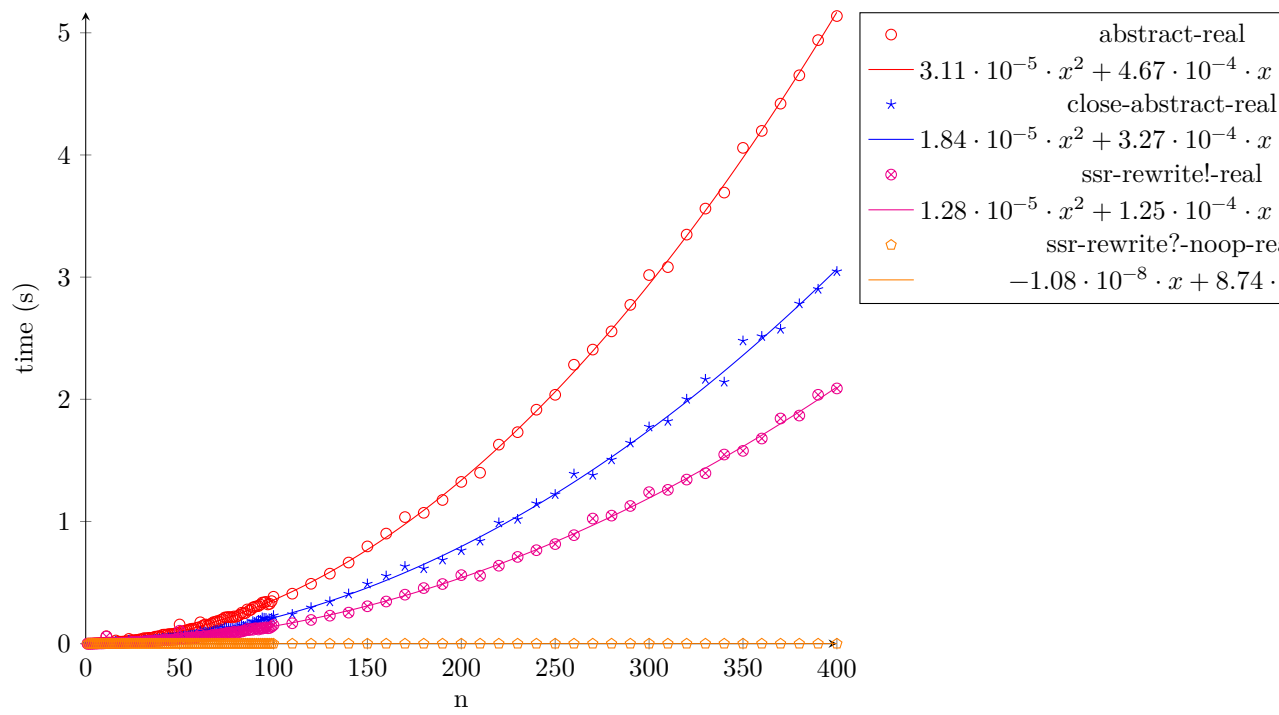Figure 7: timing-rewrite-repeated-app-autorewrite-noop
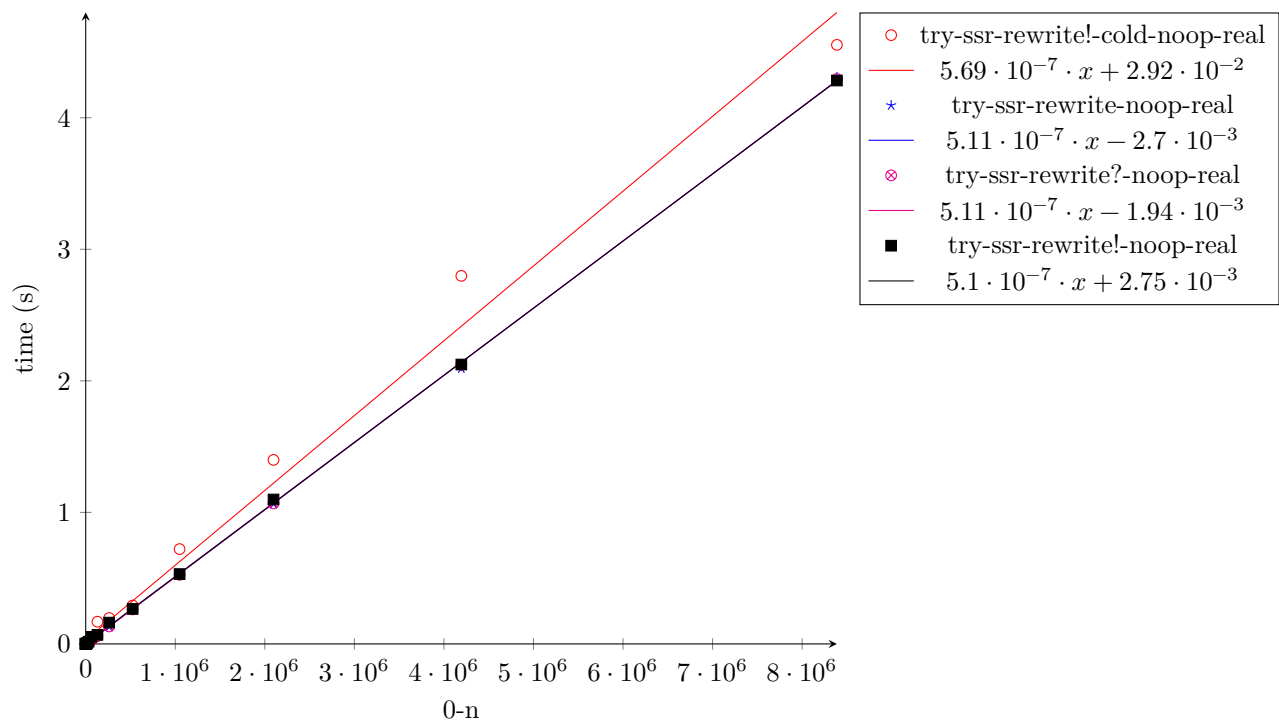
Figure 8: timing-rewrite-repeated-app-ssrrewrite

Figure 9: timing-rewrite-repeated-app-ssrrewrite-noop param-1-lgn   1
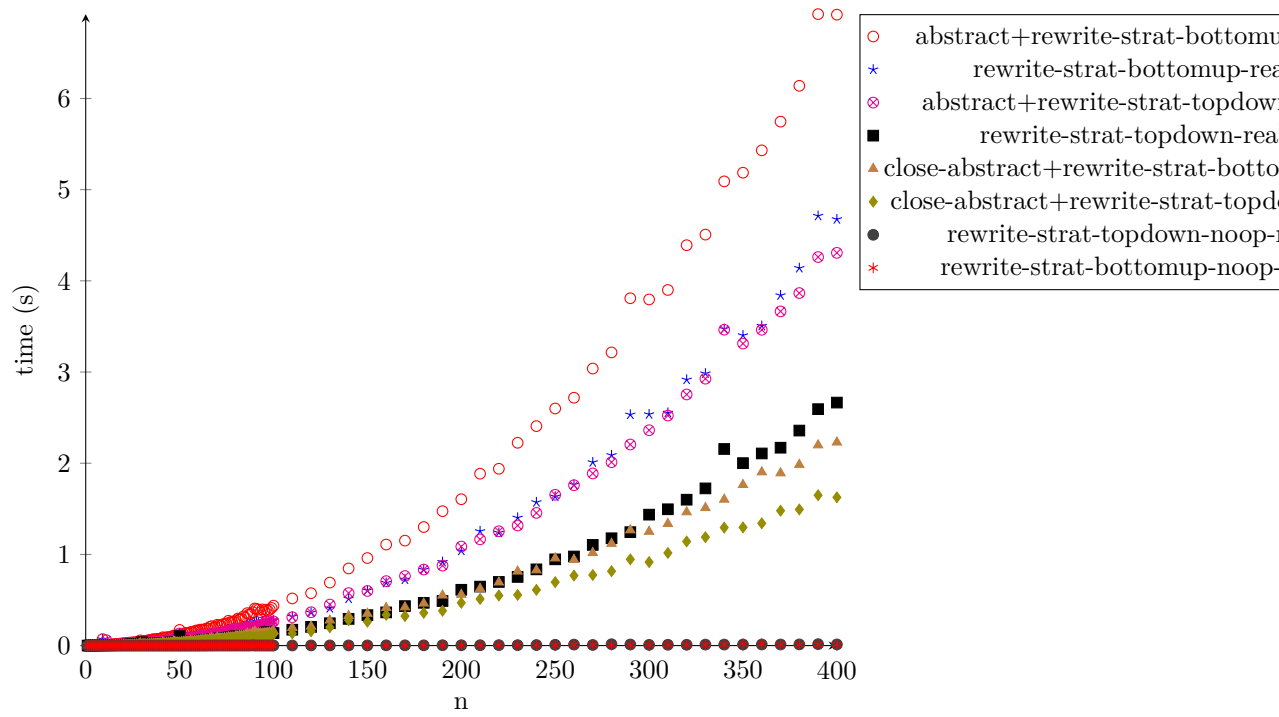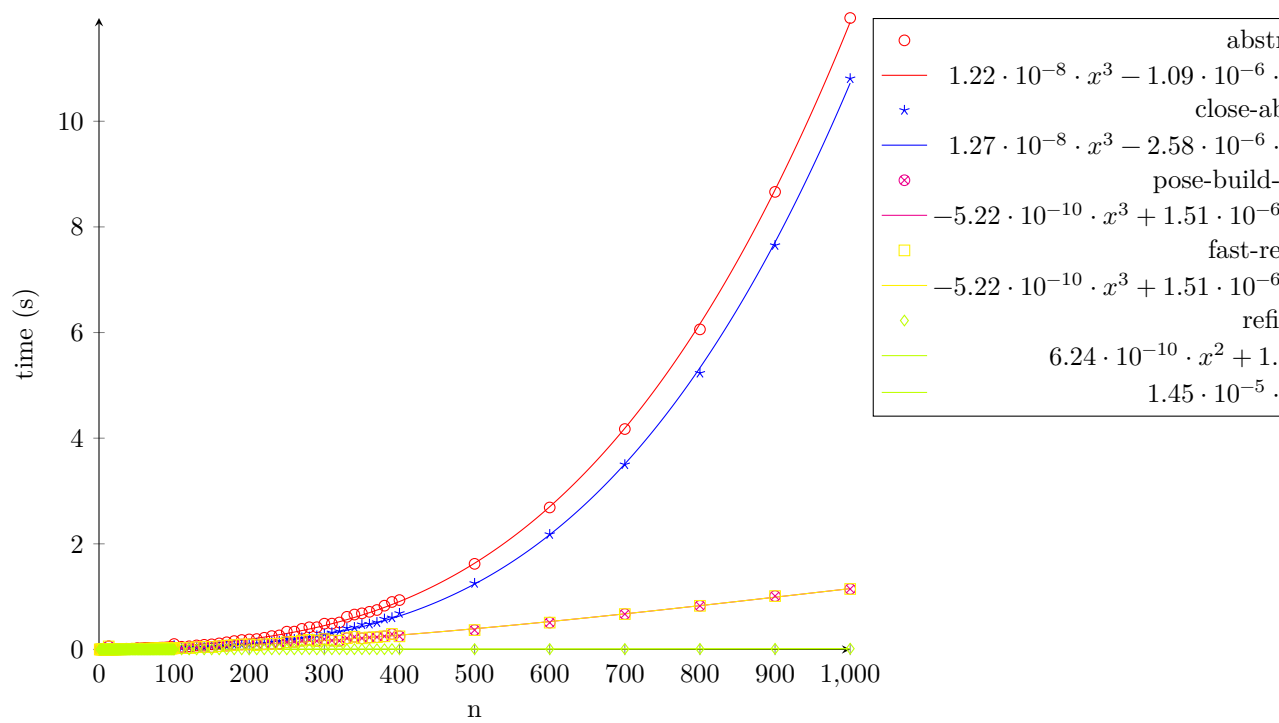
Figure 10: timing-rewrite-repeated-app-rewrite-strat

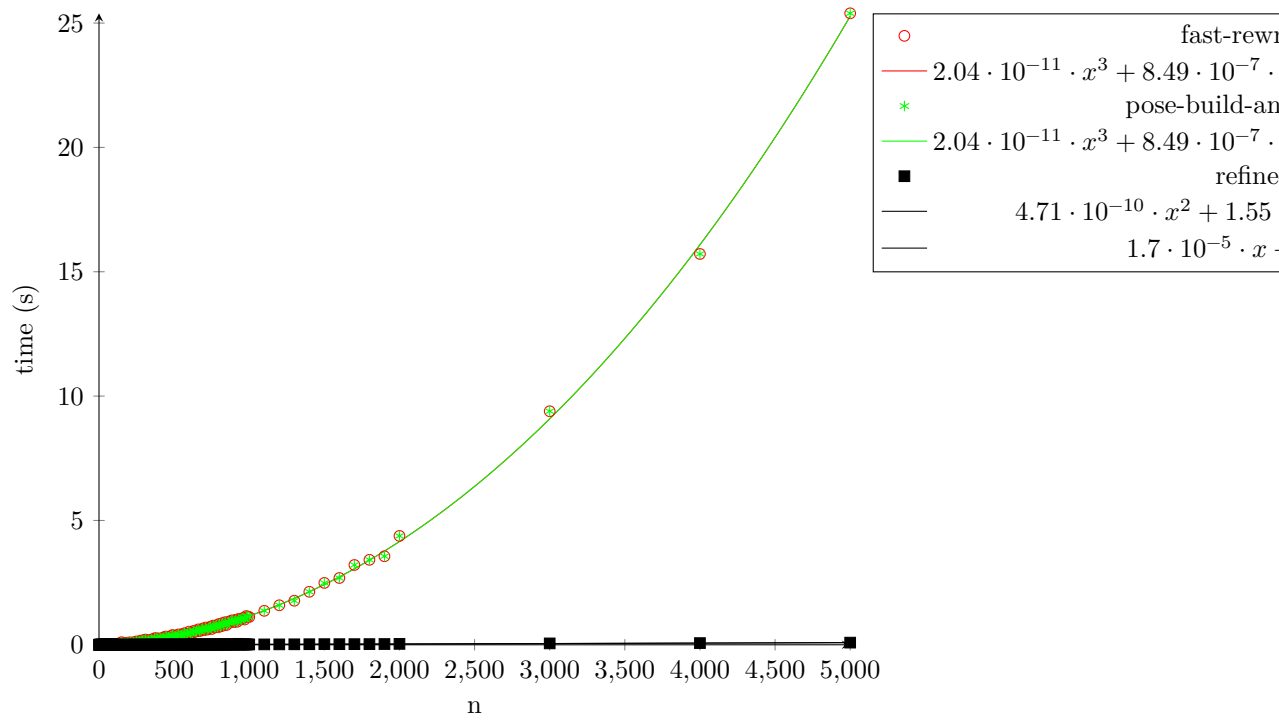Figure 11: timing-rewrite-repeated-app-fast-rewrite

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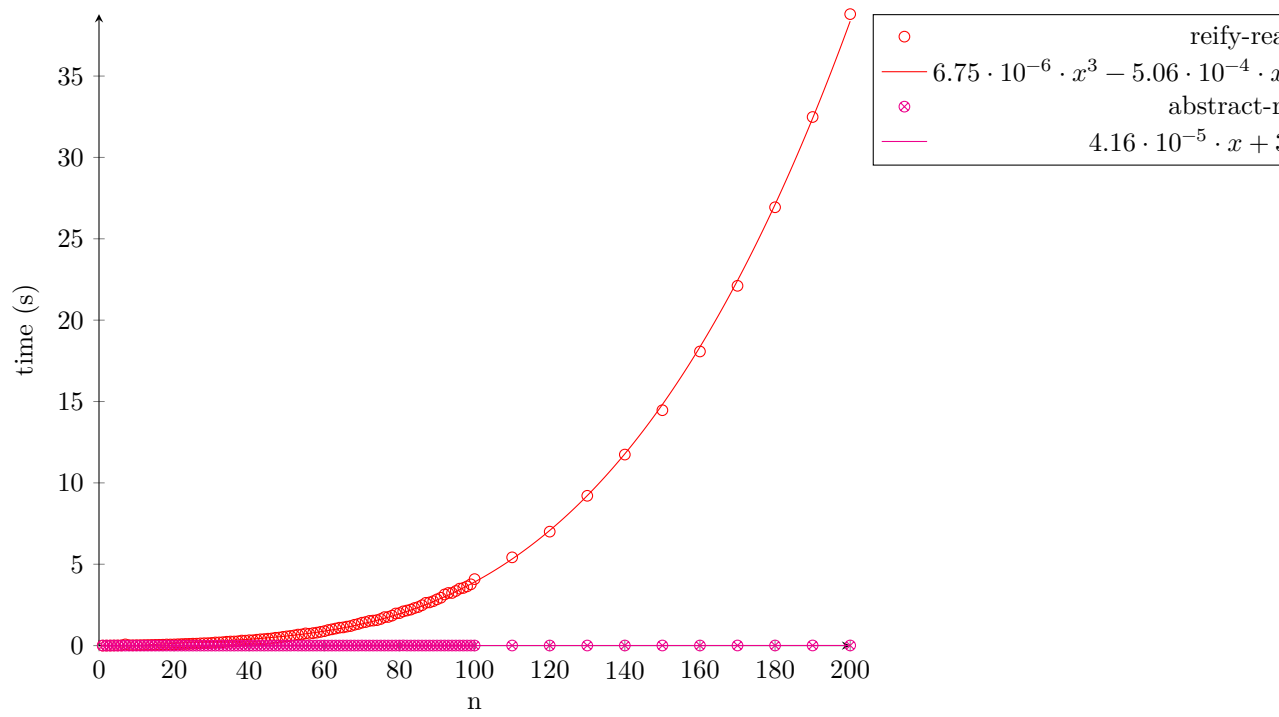
Figure 13: timing-typeclass-reification-let-in-HOAS
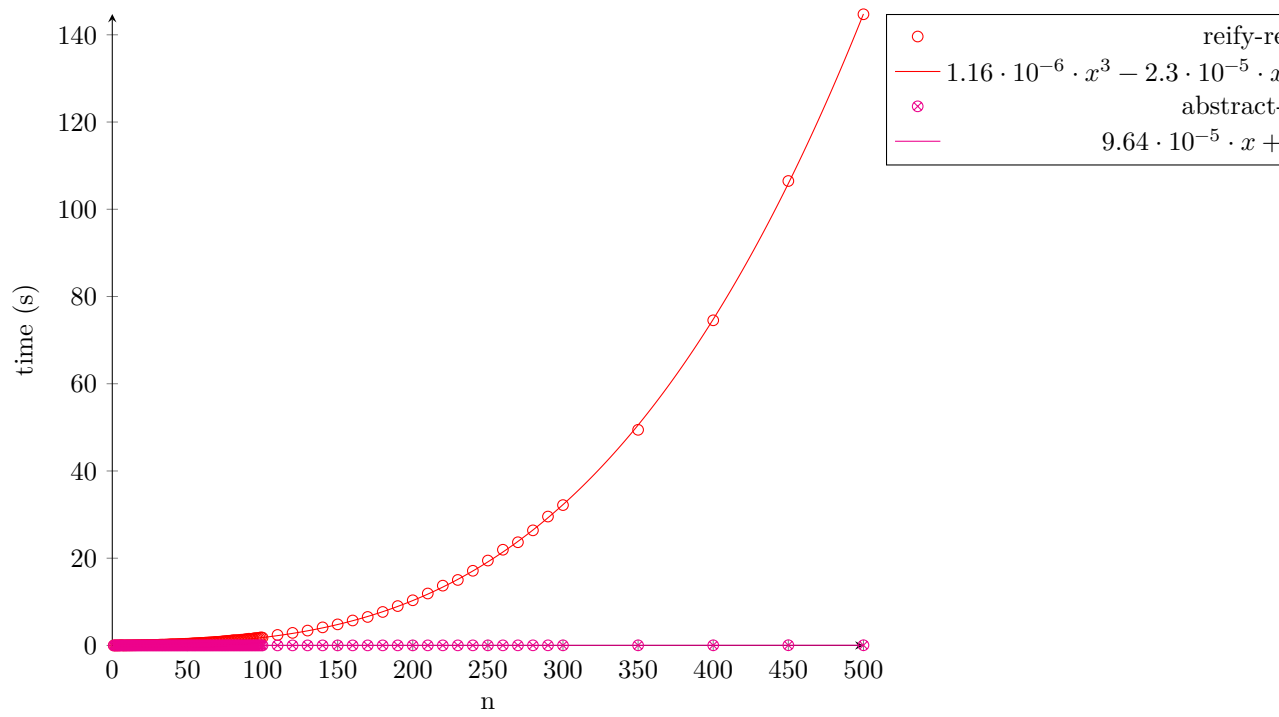
13

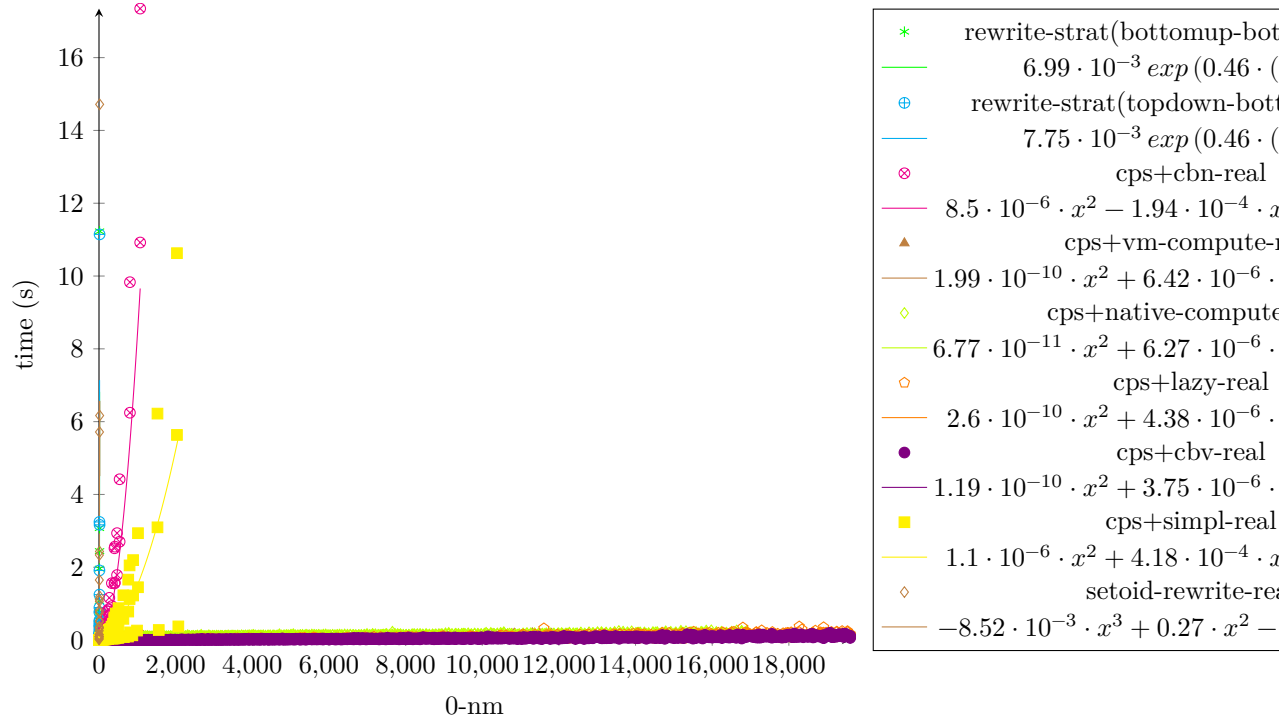Figure 14: timing-typeclass-reification-let-in-PHOAS

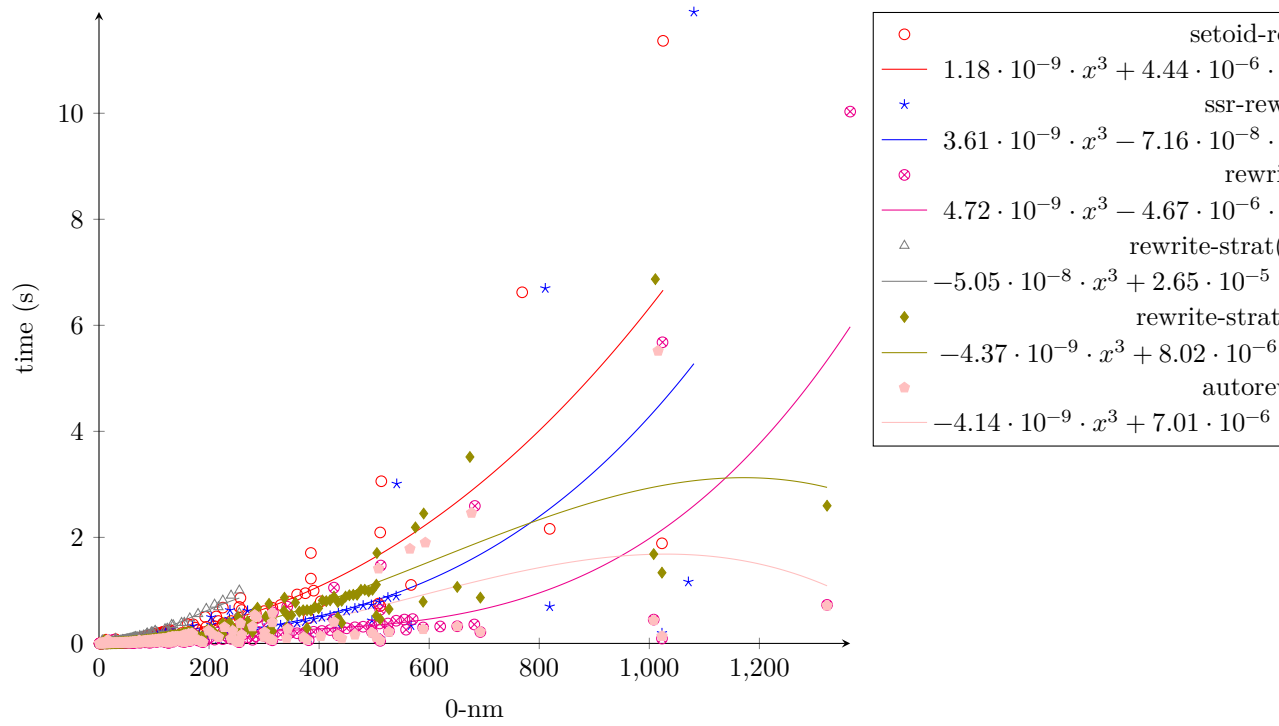Figure 15: timing-rewrite-lift-lets-map param-1-n 1, param-2-m 1

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
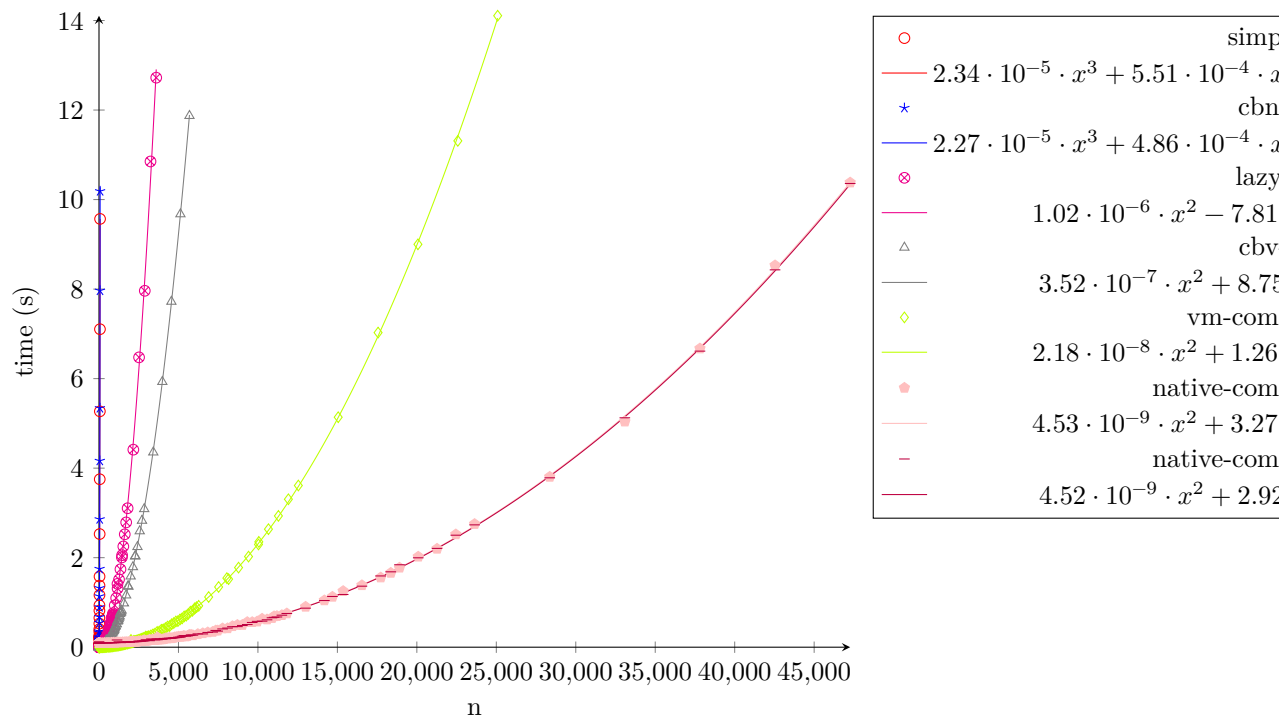
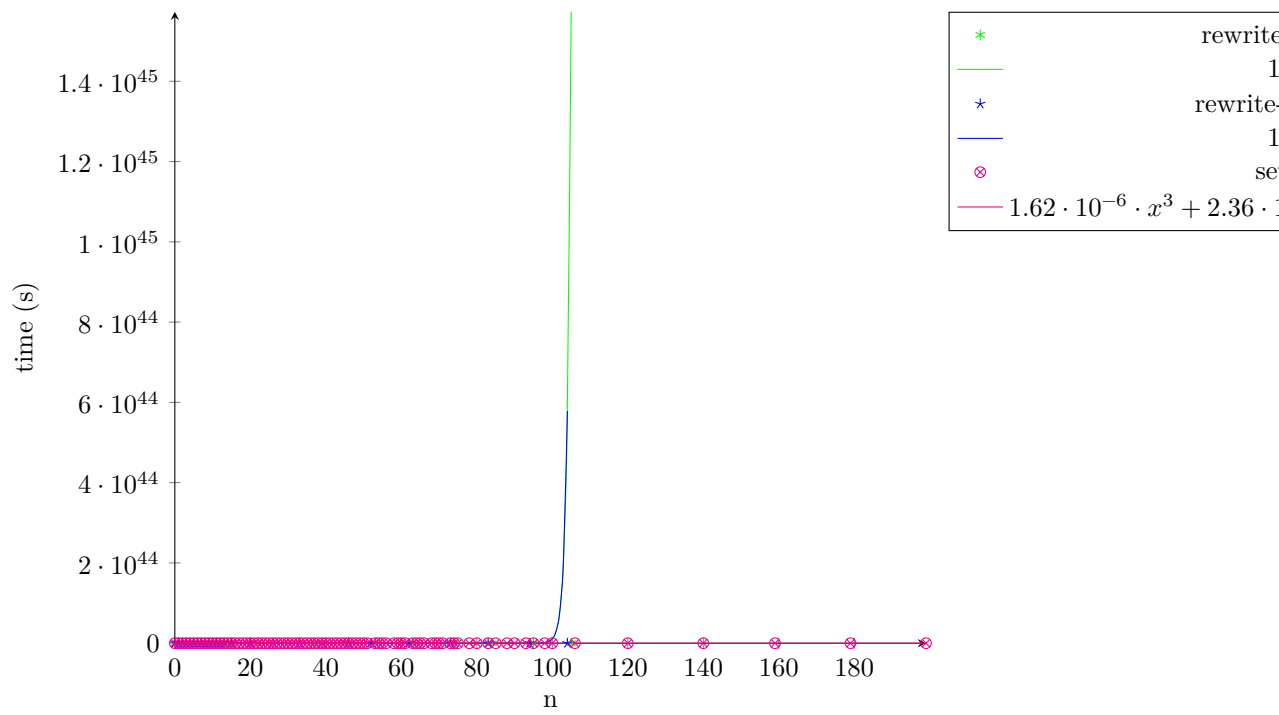Figure 17: timing-sieve-of-eratosthenes
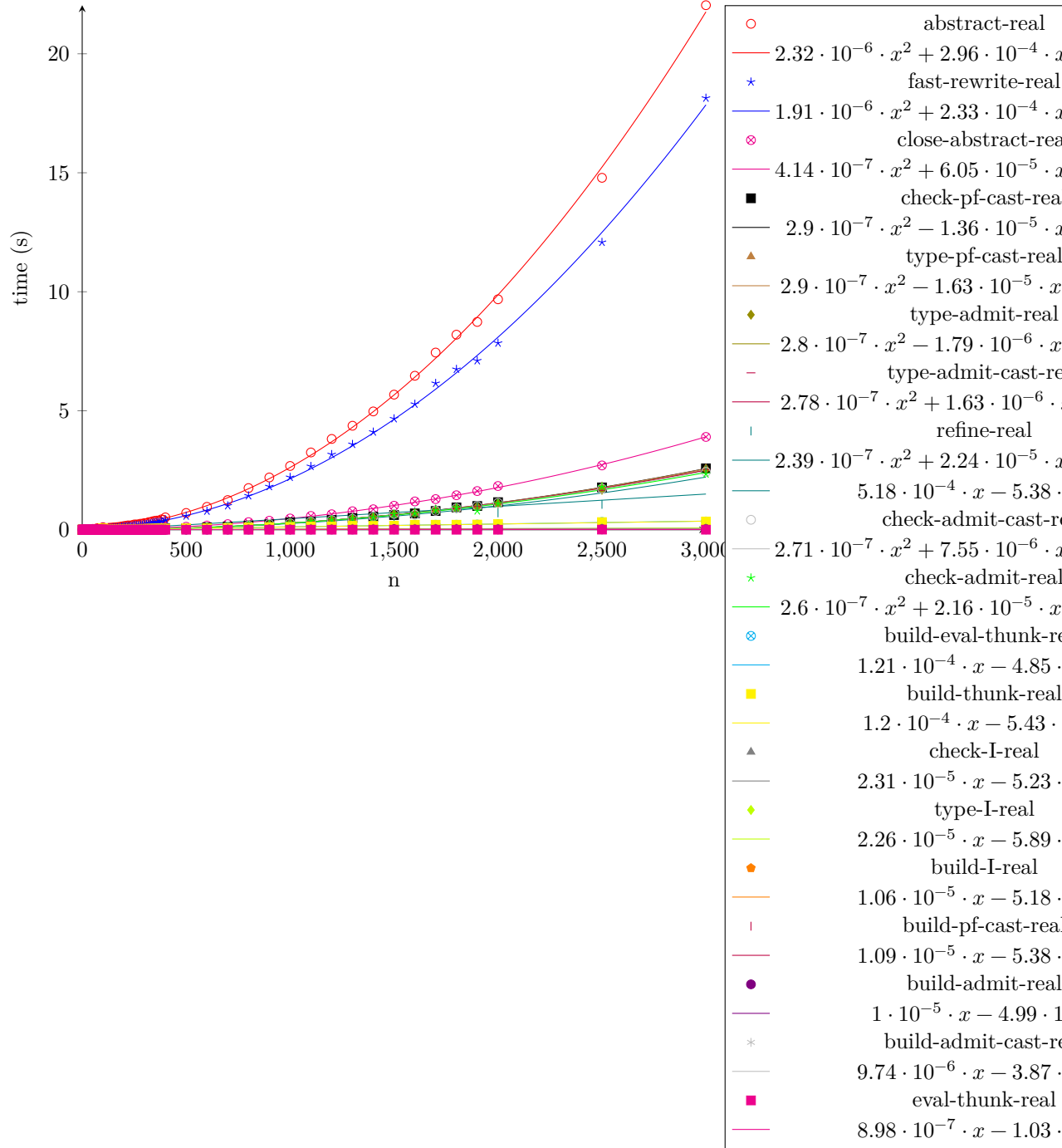
Figure 18: timing-rewrite-under-lets-plus-0

Figure 19: timing-rewrite-repeated-app-fast-rewrite-ltac2