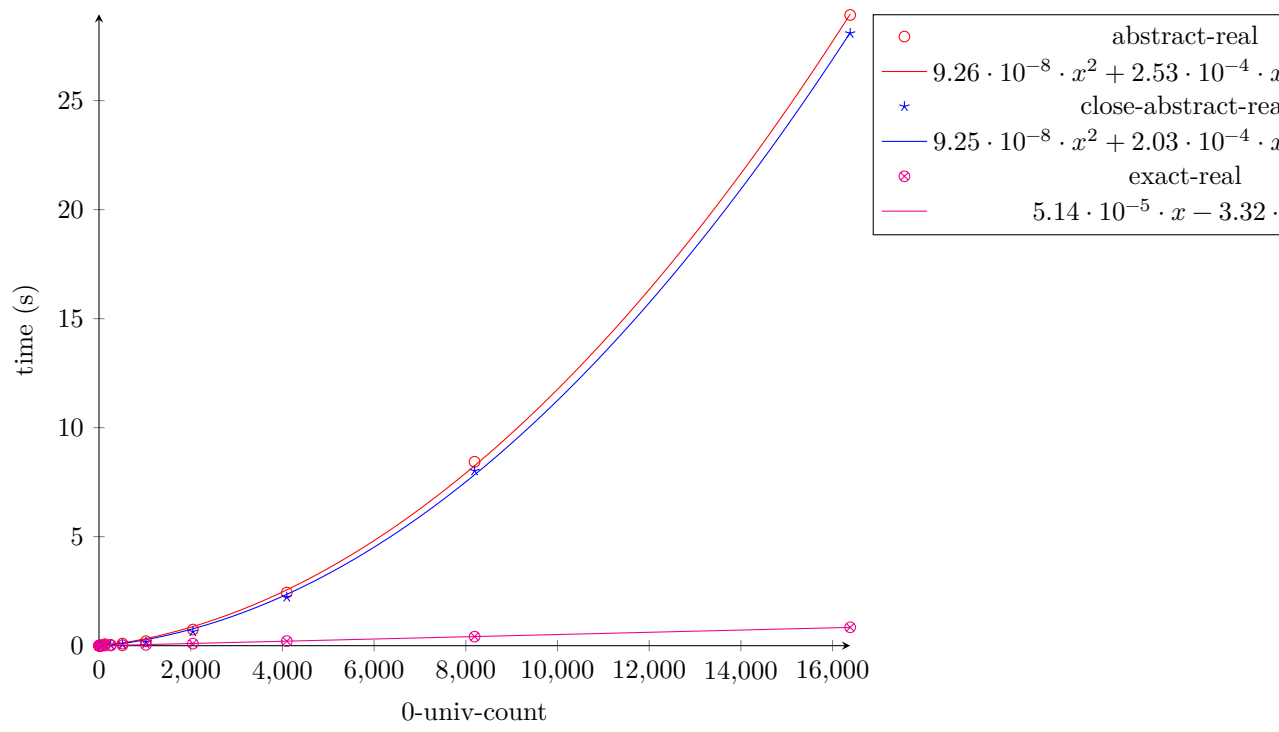Figure 1: timing-pattern

1

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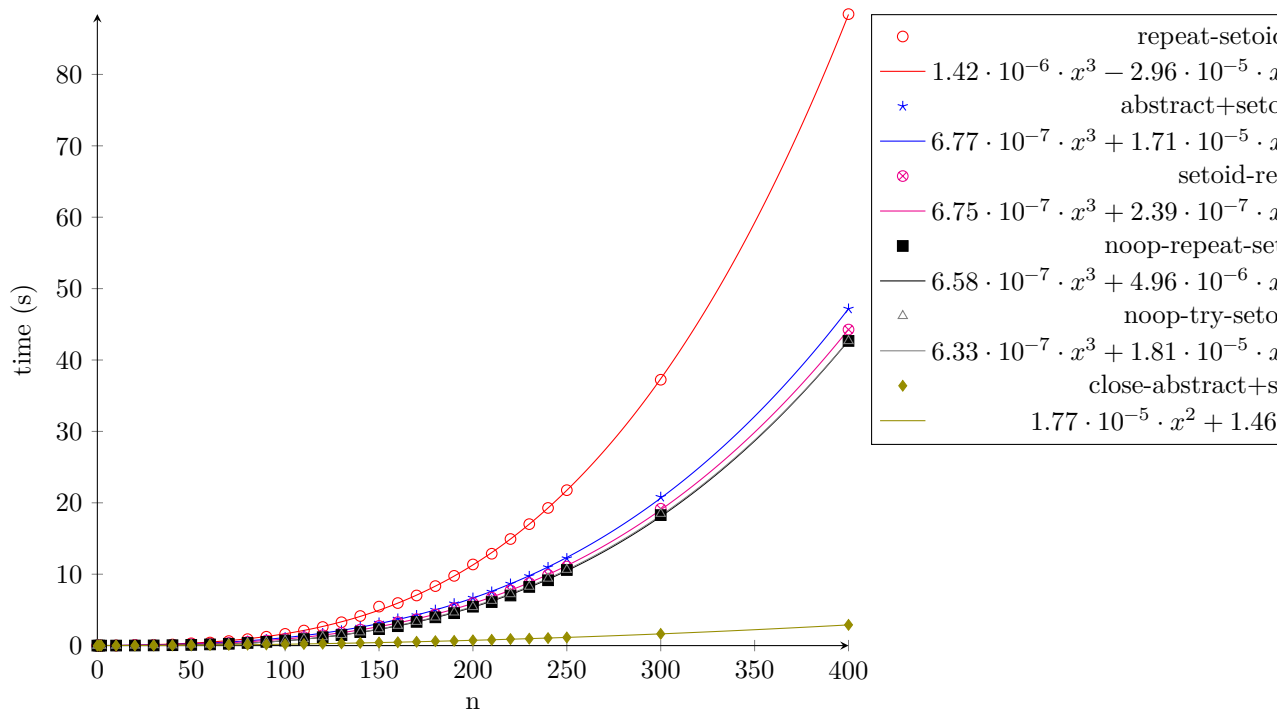
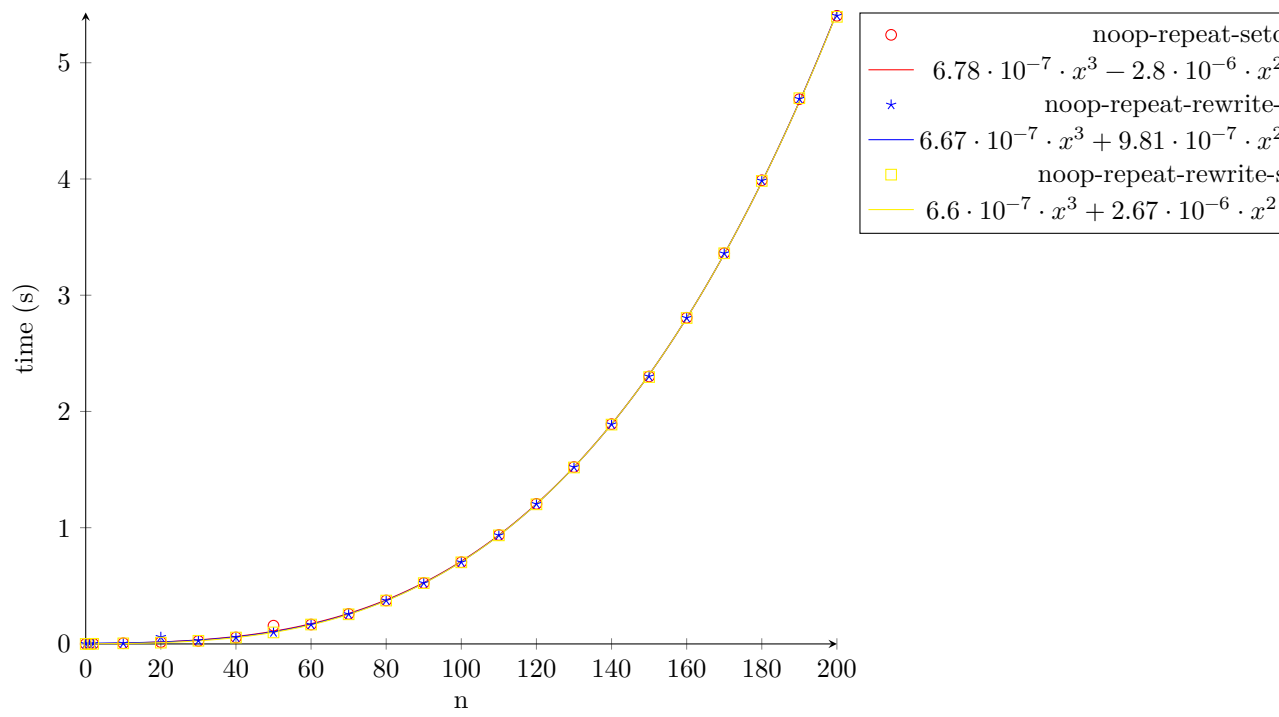Figure 3: timing-repeat-setoid-rewrite-under-binders

3

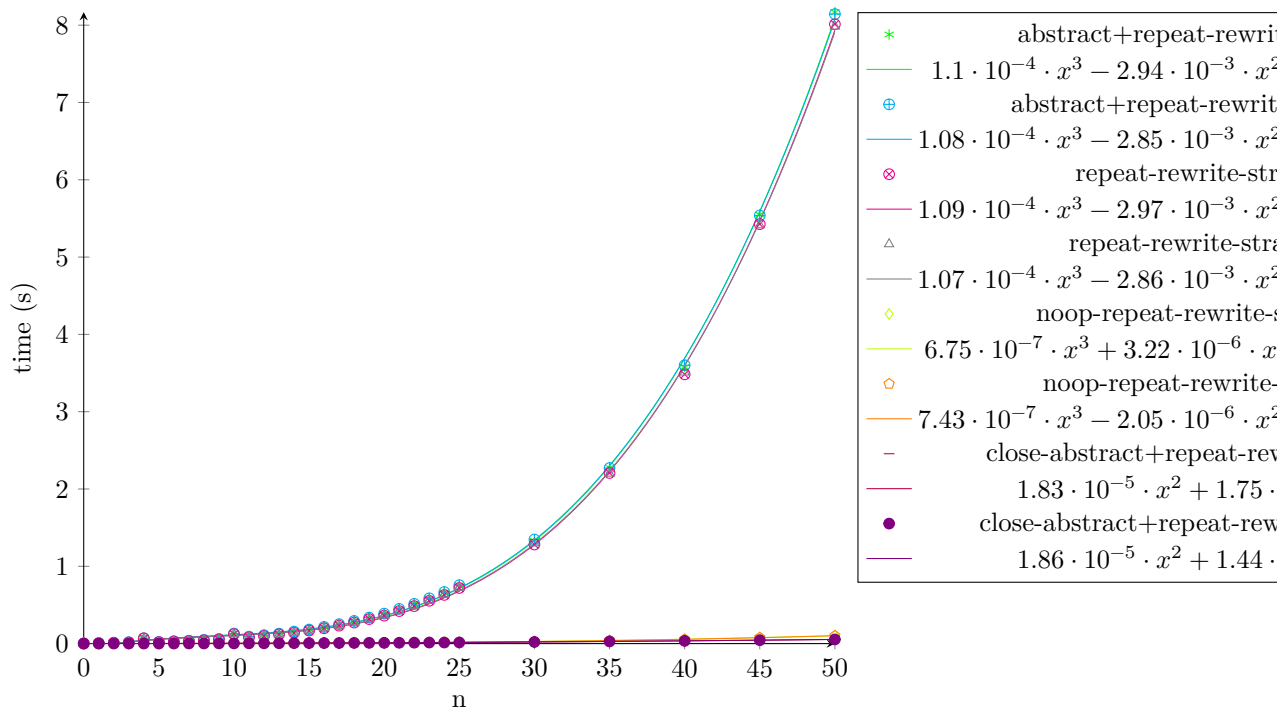Figure 4: timing-repeat-setoid-rewrite-under-binders-noop

4

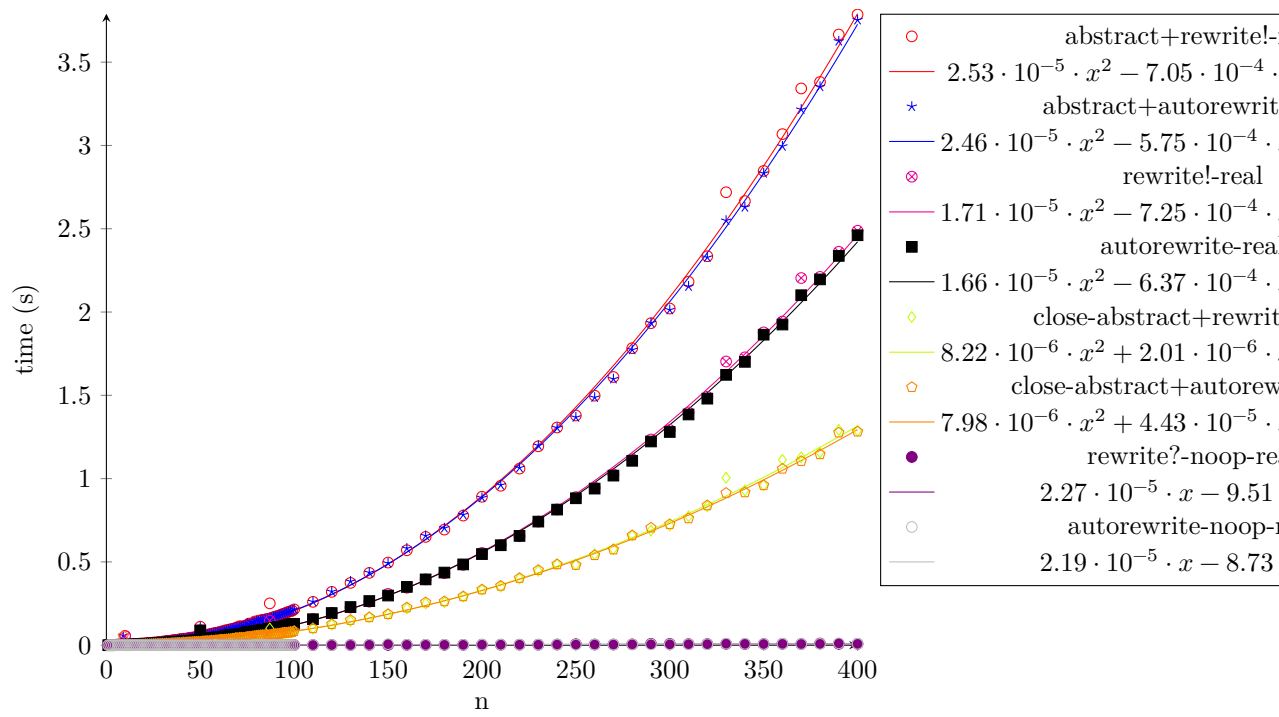Figure 5: timing-rewrite-strat-under-binders
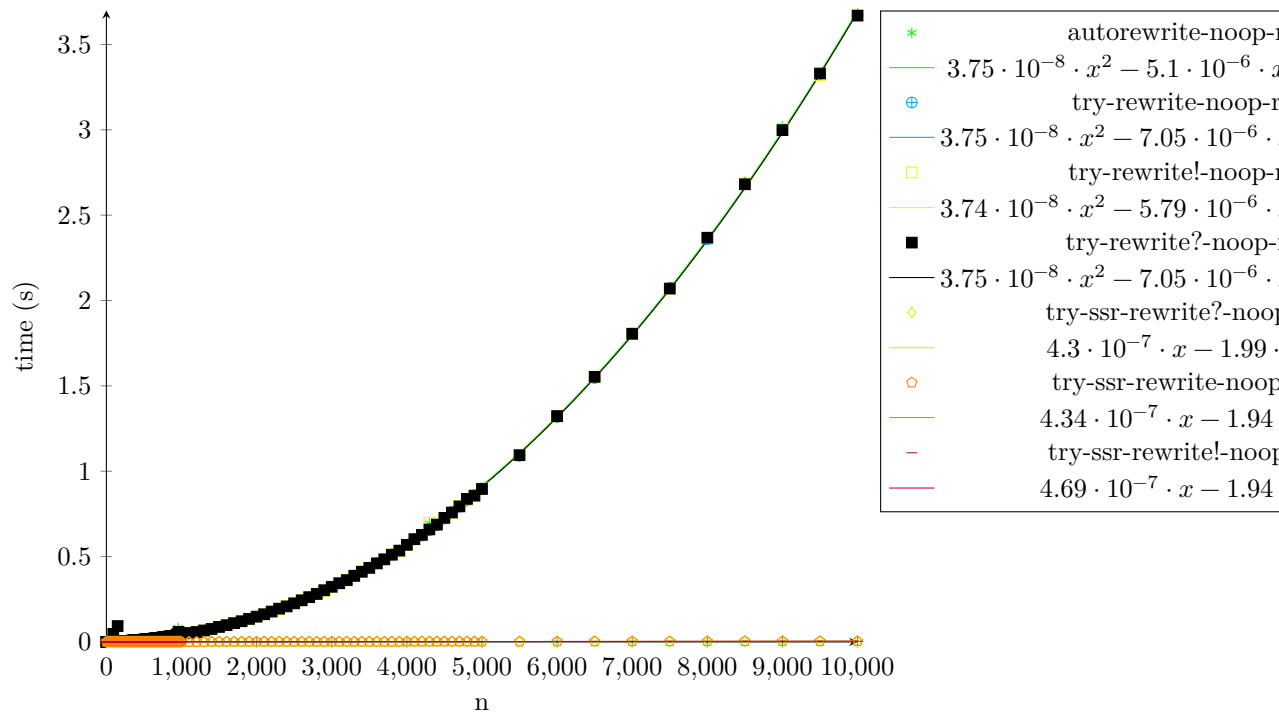
Figure 6: timing-rewrite-repeated-app-autorewrite

6

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

The legend of the figure reads:

* autorewrite-noop-r
$3.75 \cdot 10^{-8} \cdot x^2 - 5.1 \cdot 10^{-6} \cdot x$
⊕ try-rewrite-noop-r
$3.75 \cdot 10^{-8} \cdot x^2 - 7.05 \cdot 10^{-6} \cdot$
□ try-rewrite!-noop-r
$3.74 \cdot 10^{-8} \cdot x^2 - 5.79 \cdot 10^{-6} \cdot$
■ try-rewrite?-noop-
$3.75 \cdot 10^{-8} \cdot x^2 - 7.05 \cdot 10^{-6} \cdot$
◇ try-ssr-rewrite?-noop
$4.3 \cdot 10^{-7} \cdot x - 1.99 \cdot$
⬠ try-ssr-rewrite-noop
$4.34 \cdot 10^{-7} \cdot x - 1.94$
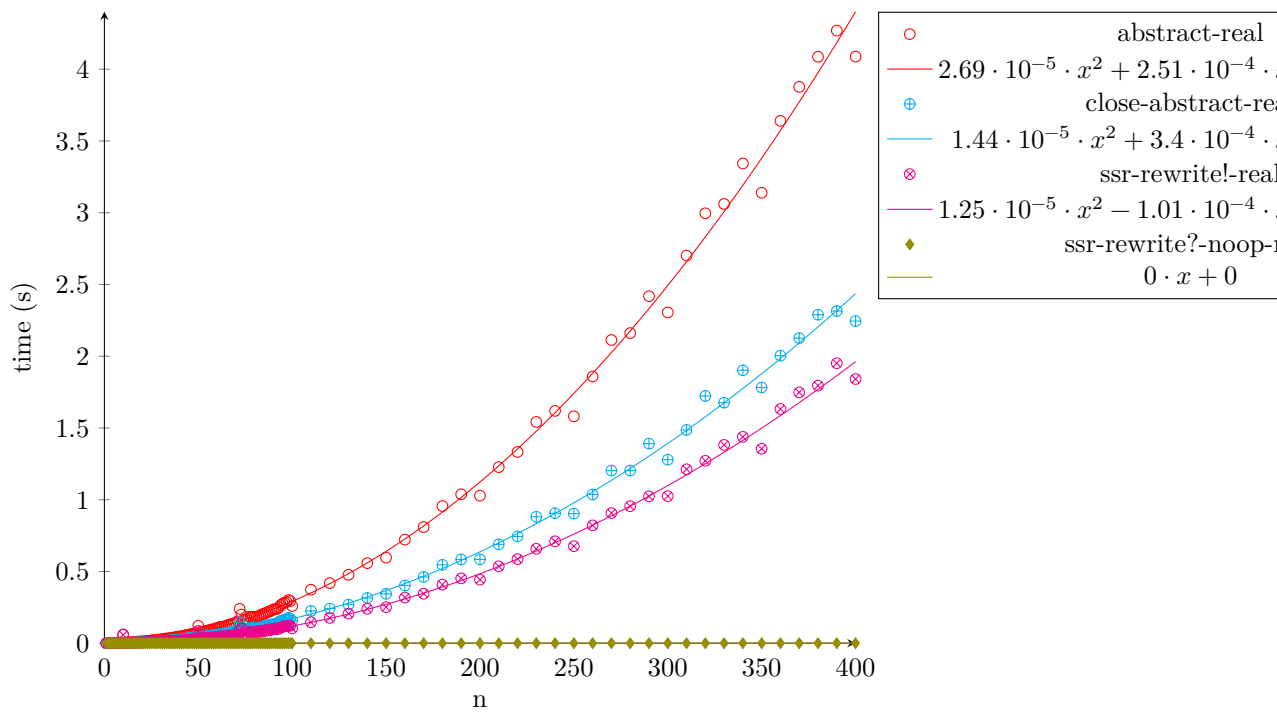– try-ssr-rewrite!-noop
$4.69 \cdot 10^{-7} \cdot x - 1.94$
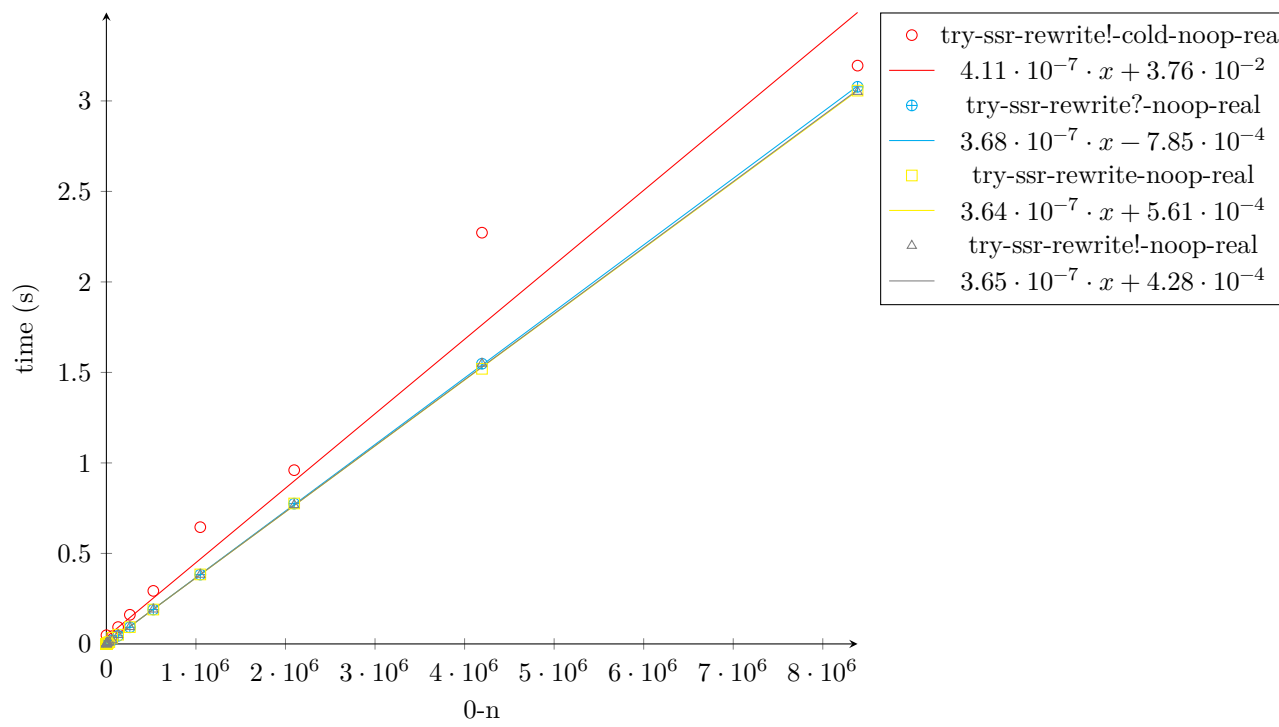
7

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
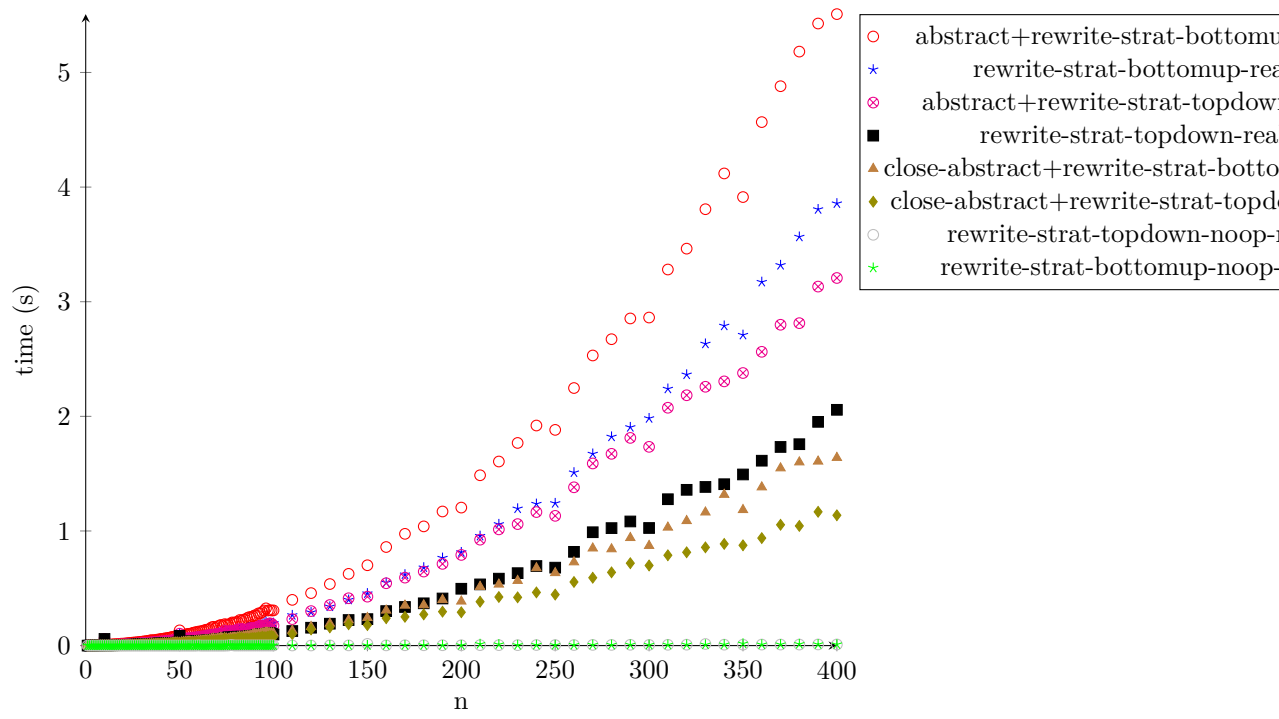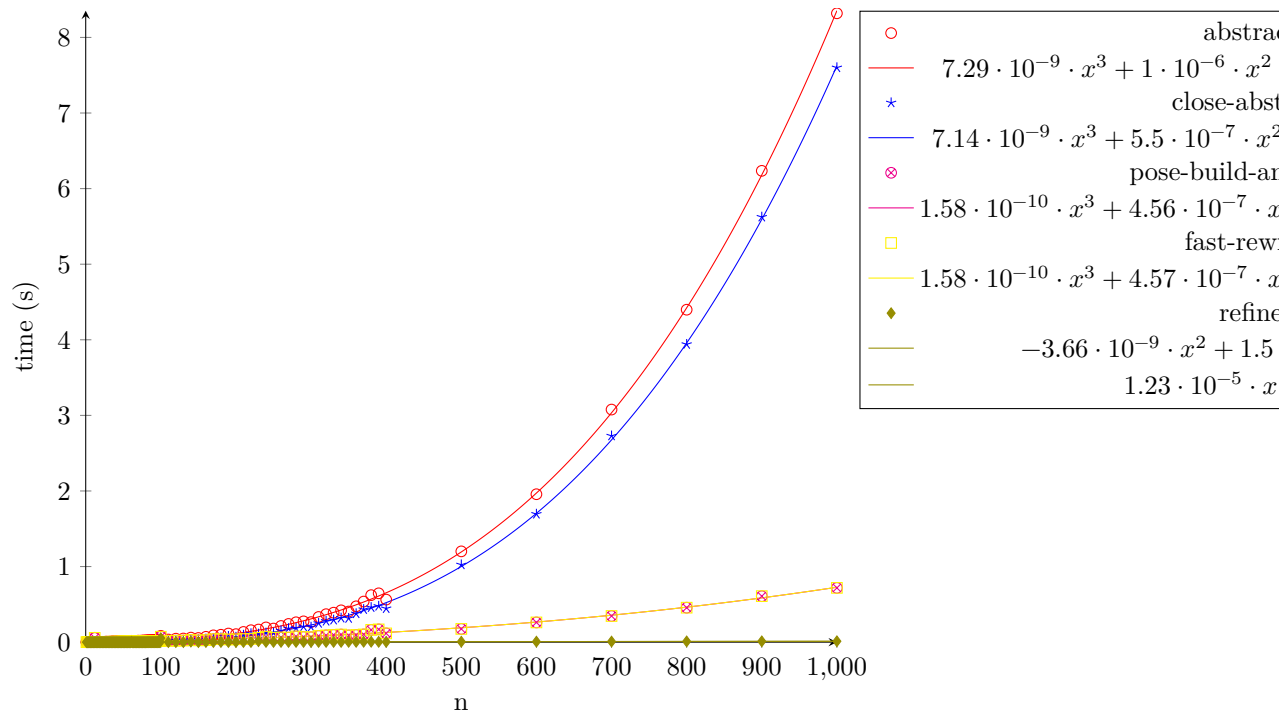
The figure legend contains:
- abstract+rewrite-strat-bottomu...
- rewrite-strat-bottomup-rea...
- abstract+rewrite-strat-topdow...
- rewrite-strat-topdown-rea...
- close-abstract+rewrite-strat-botto...
- close-abstract+rewrite-strat-topd...
- rewrite-strat-topdown-noop-...
- rewrite-strat-bottomup-noop-...

Axis labels: time (s) on the vertical axis, n on the horizontal axis.

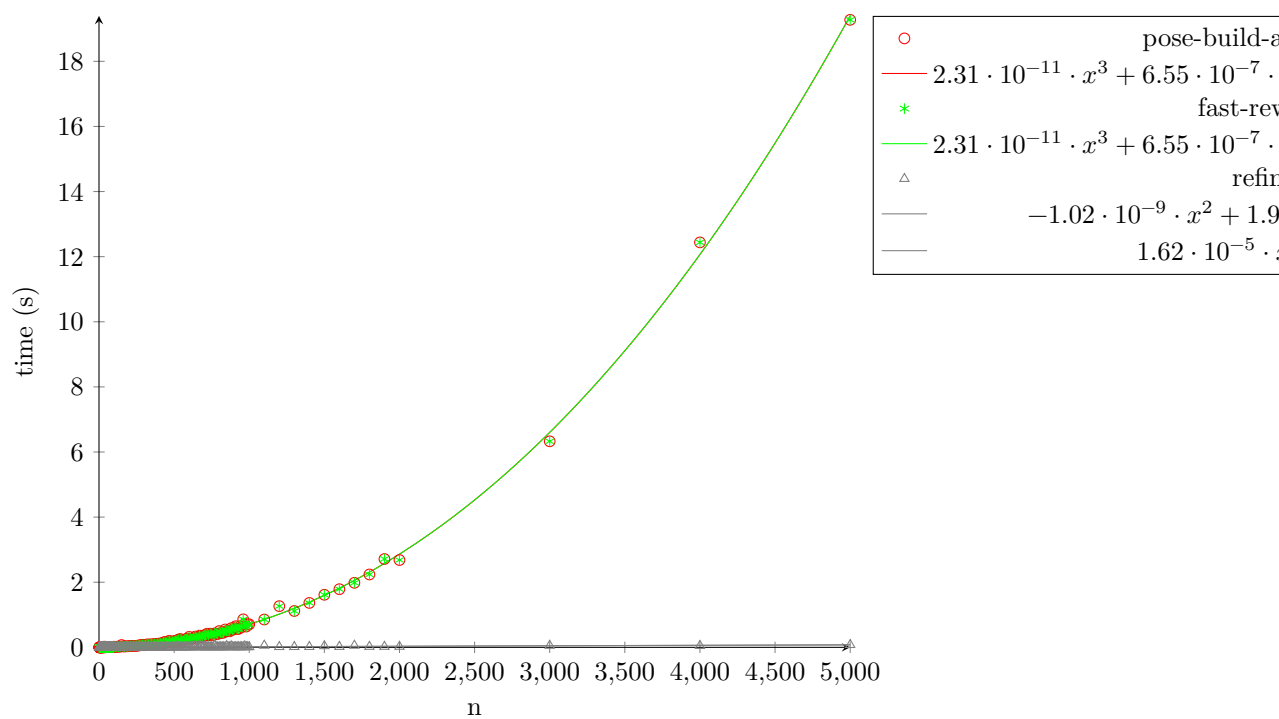Figure 11: timing-rewrite-repeated-app-fast-rewrite

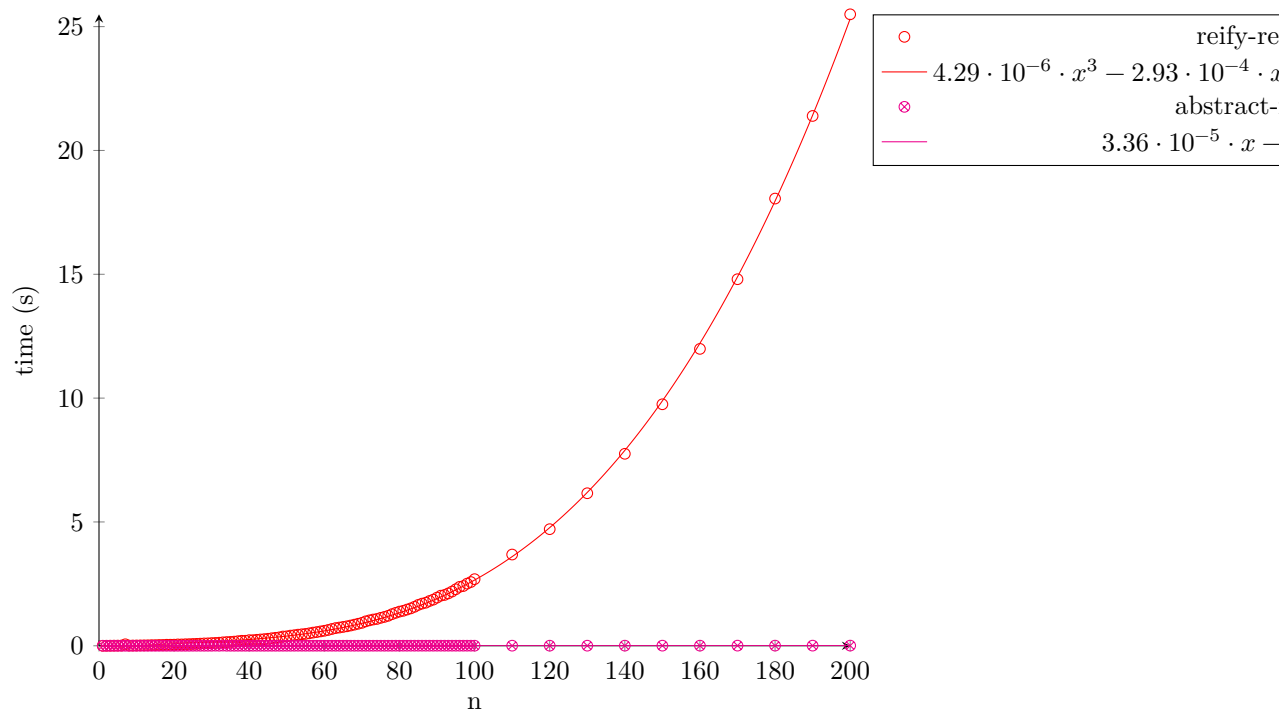Figure 12: timing-rewrite-repeated-app-fast-rewrite-no-abstract

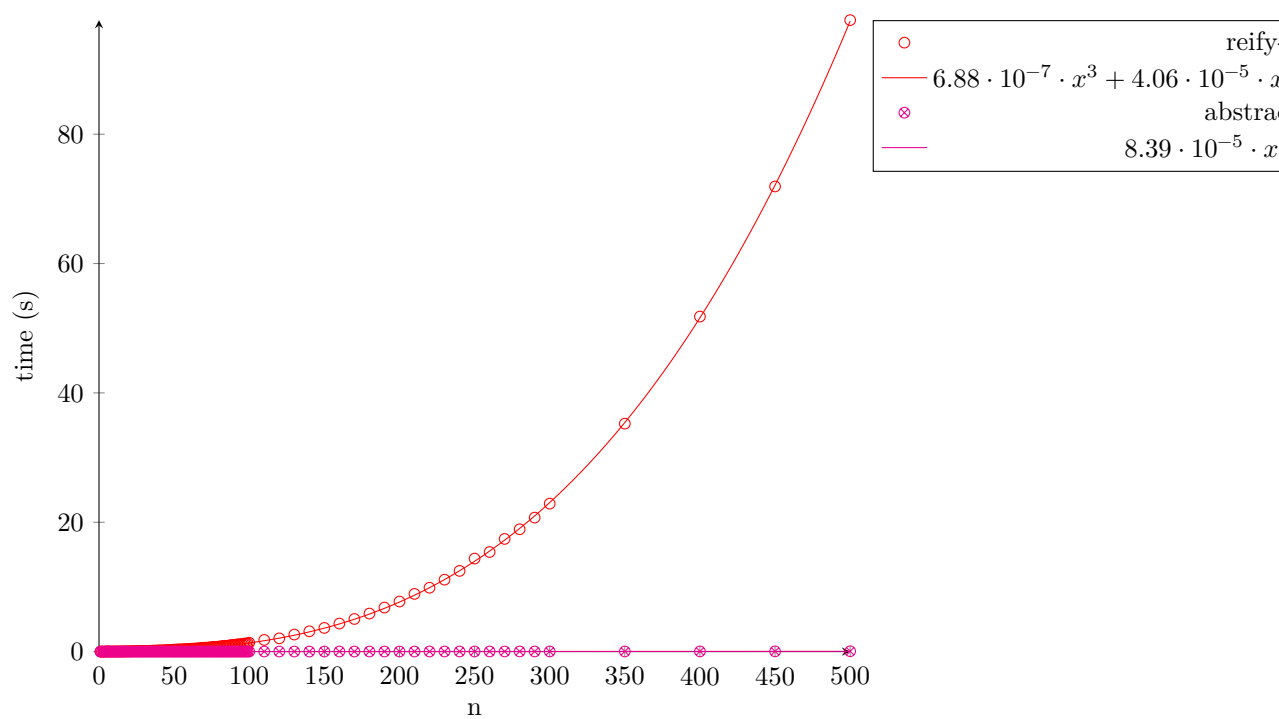Figure 13: timing-typeclass-reification-let-in-HOAS

Figure 14: timing-typeclass-reification-let-in-PHOAS
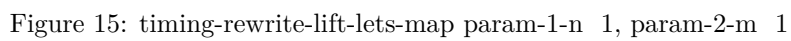
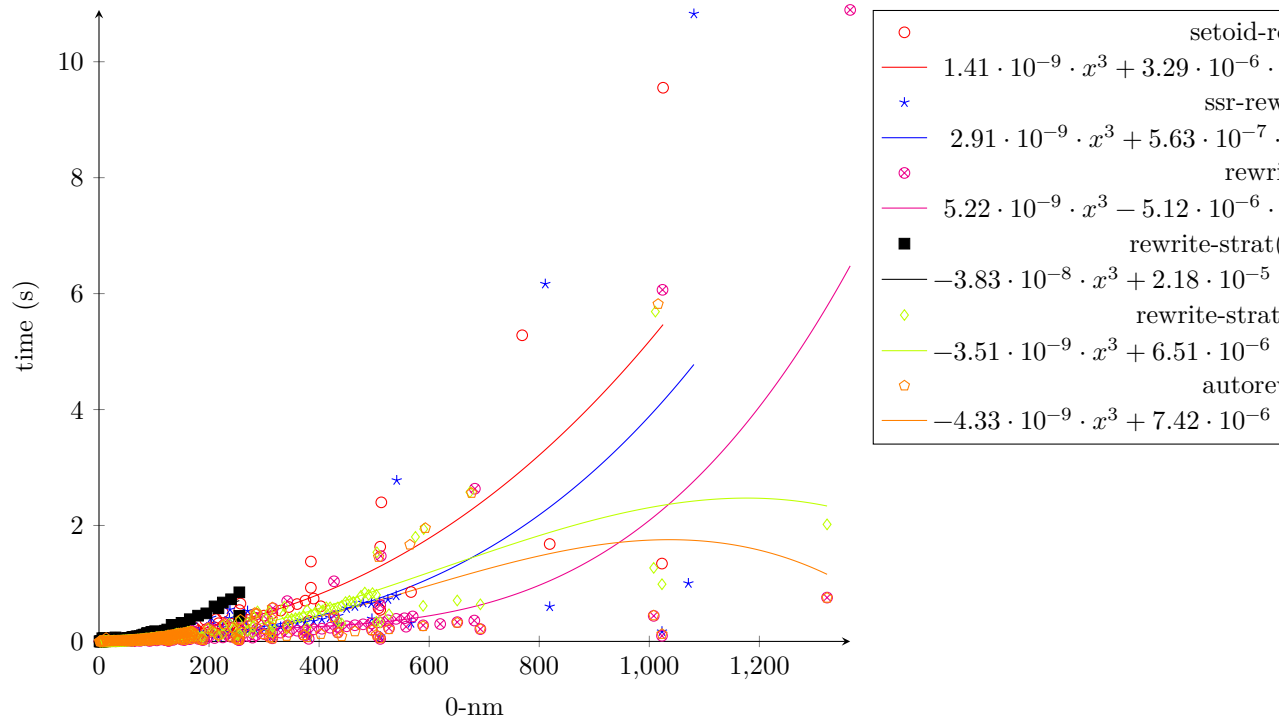Figure 15: timing-rewrite-lift-lets-map param-1-n 1, param-2-m 1

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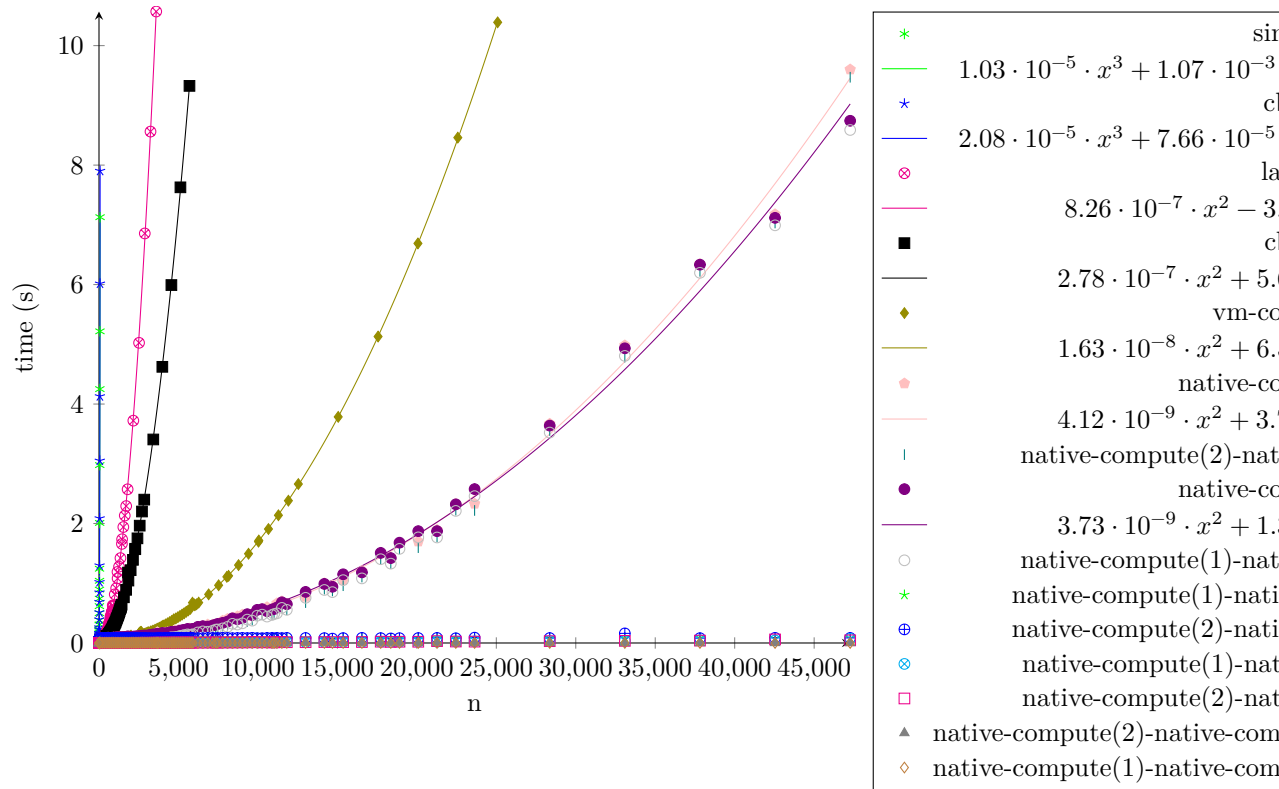
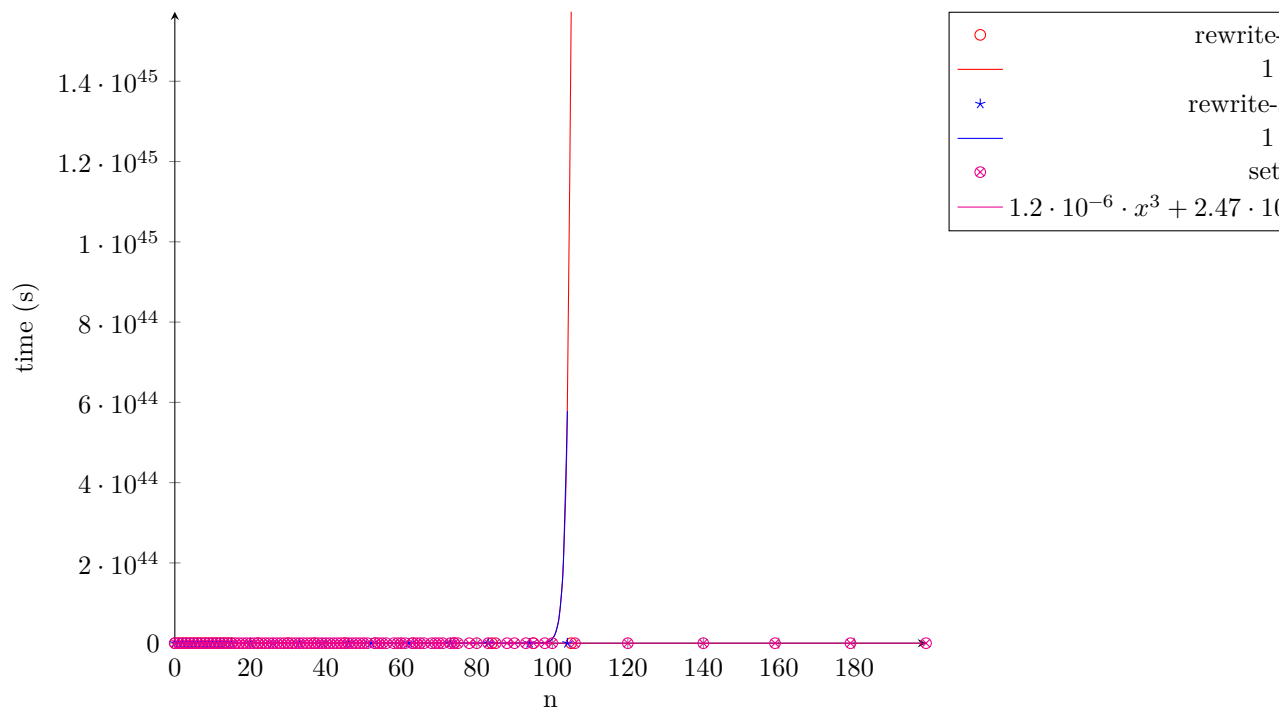Figure 17: timing-sieve-of-eratosthenes
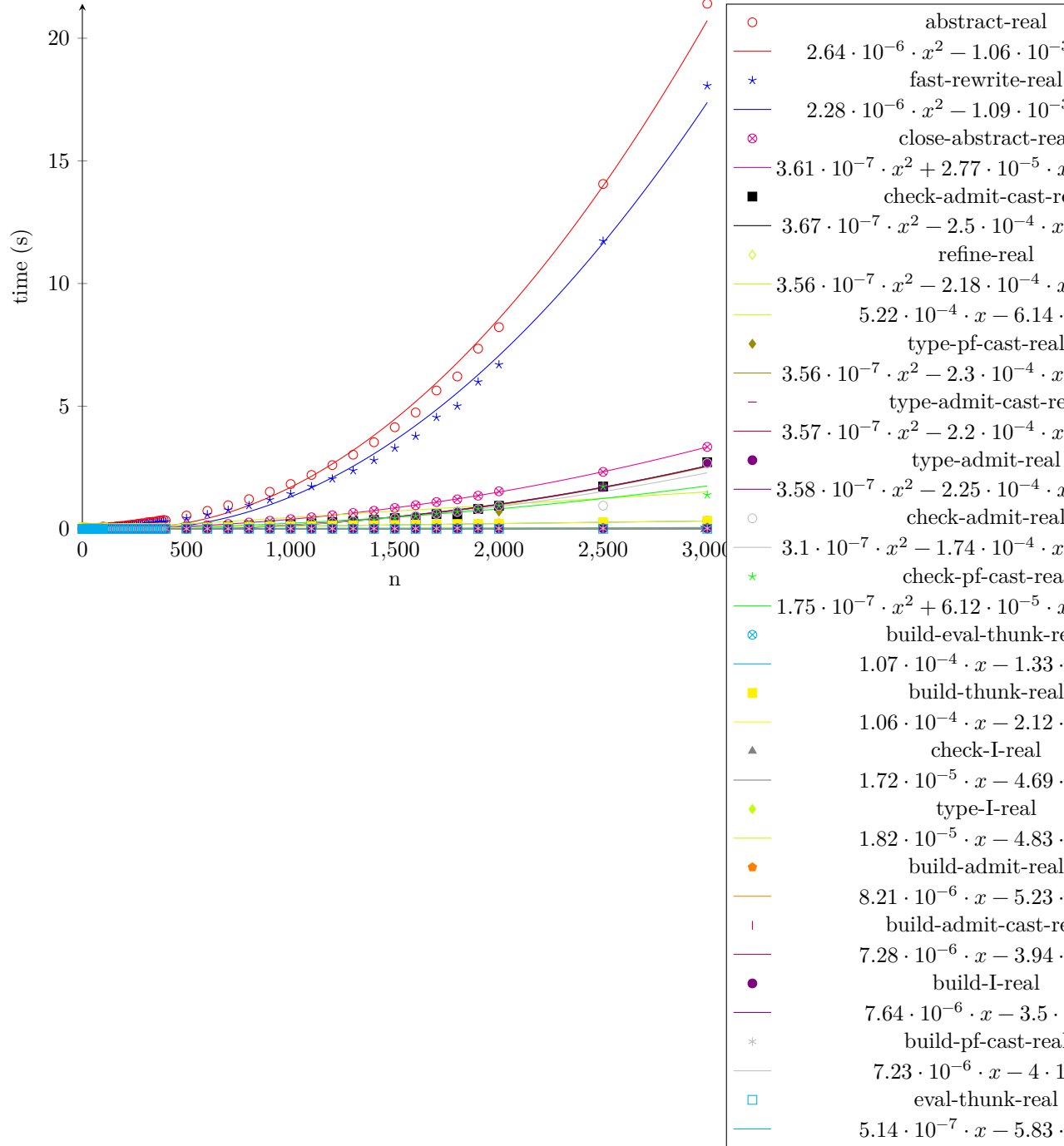
Figure 18: timing-rewrite-under-lets-plus-0

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