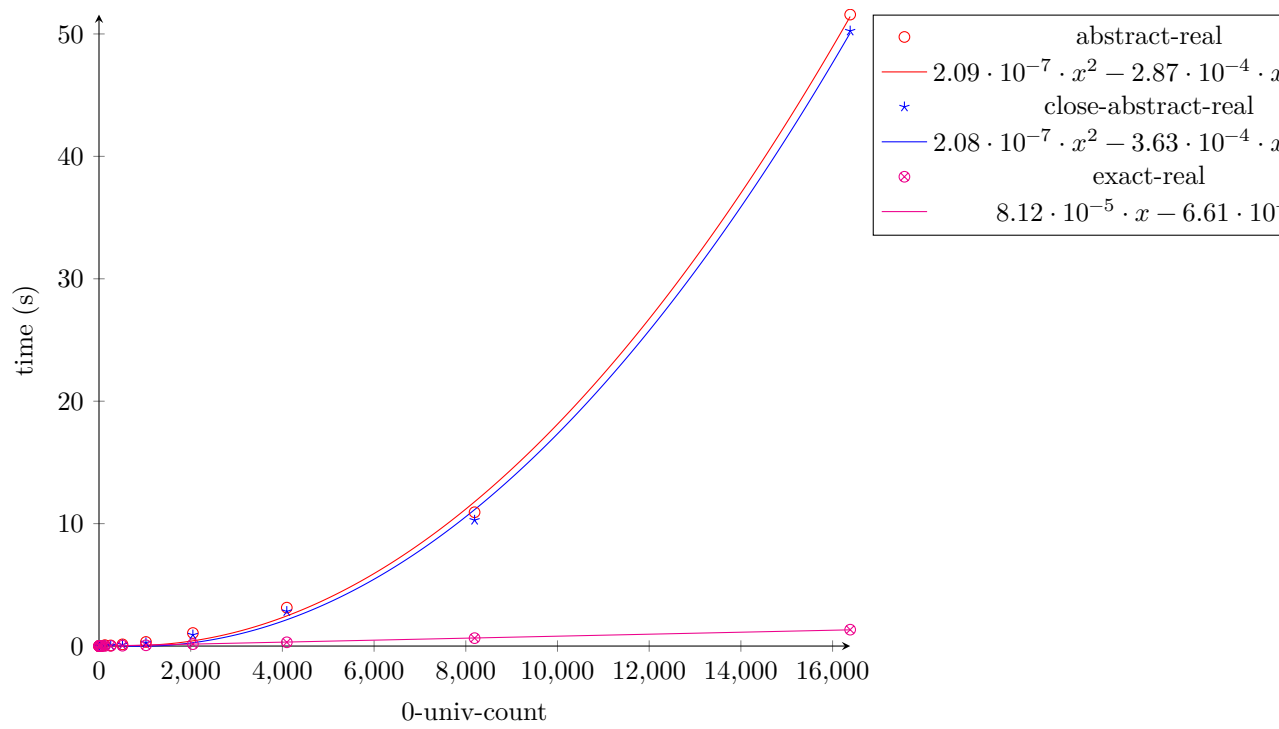Figure 1: timing-pattern

1

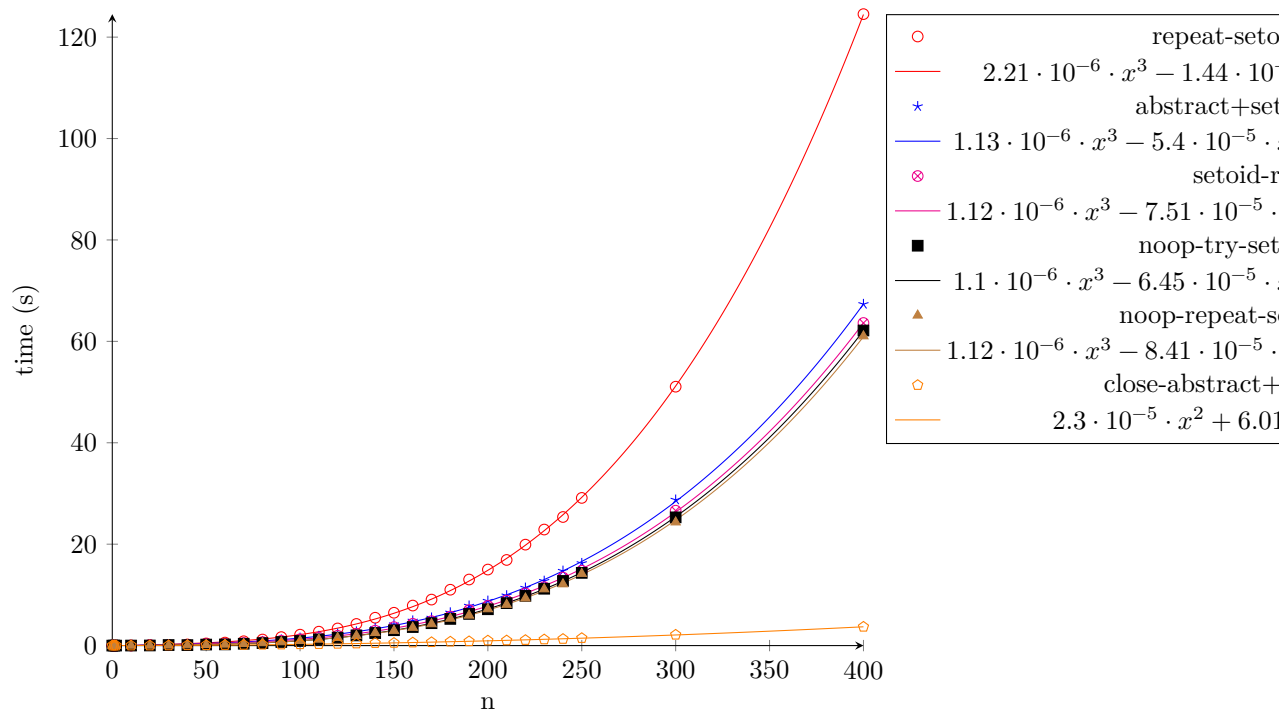Figure 2: timing-n-polymorphic-universes param-1-n 0

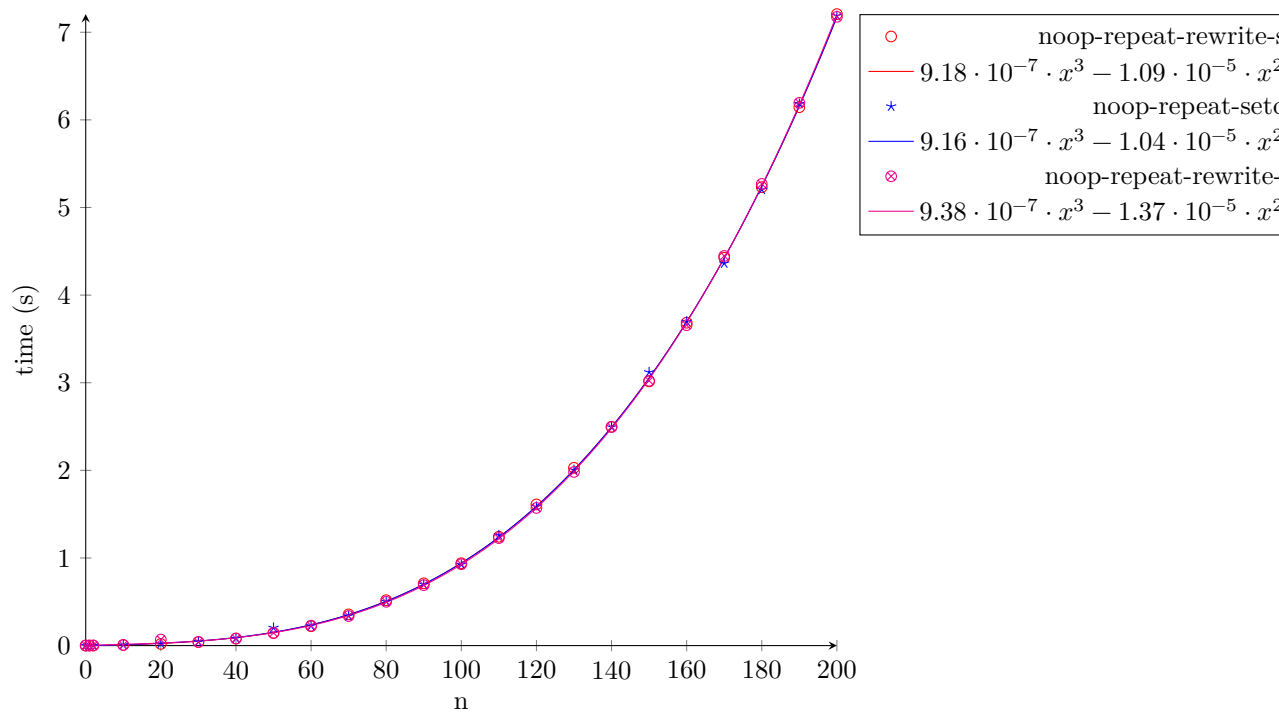Figure 3: timing-repeat-setoid-rewrite-under-binders

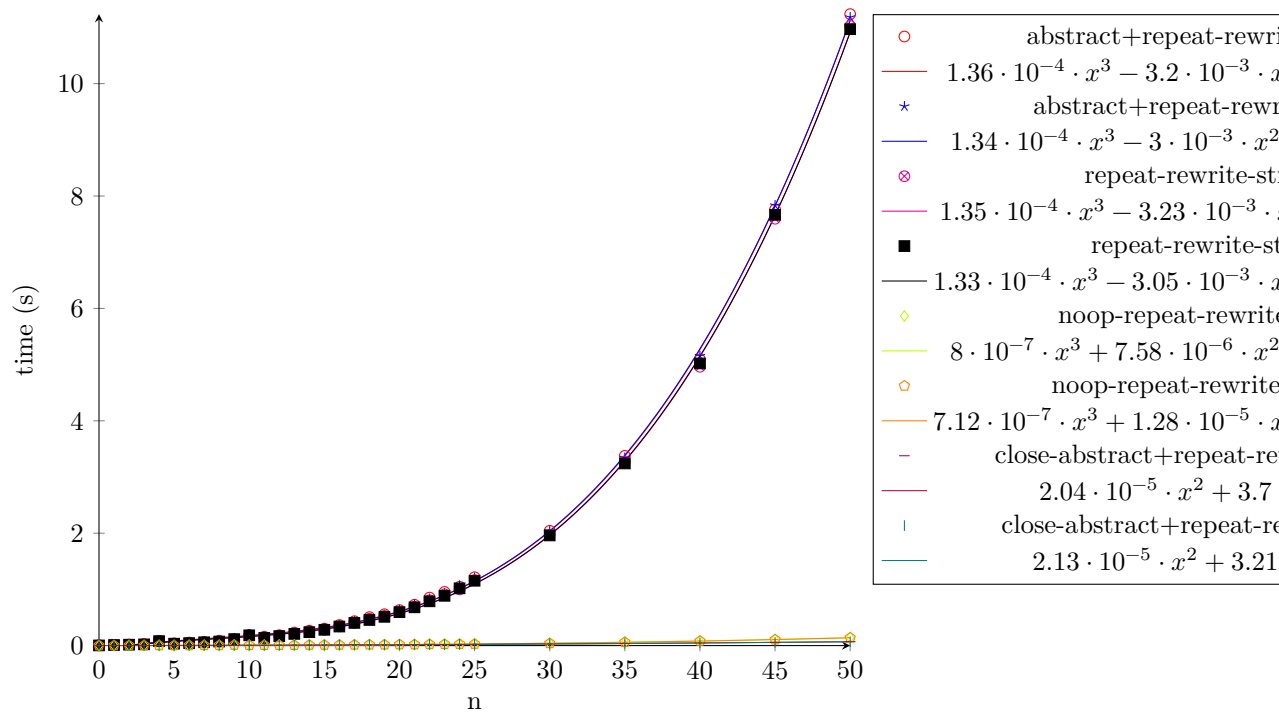Figure 4: timing-repeat-setoid-rewrite-under-binders-noop
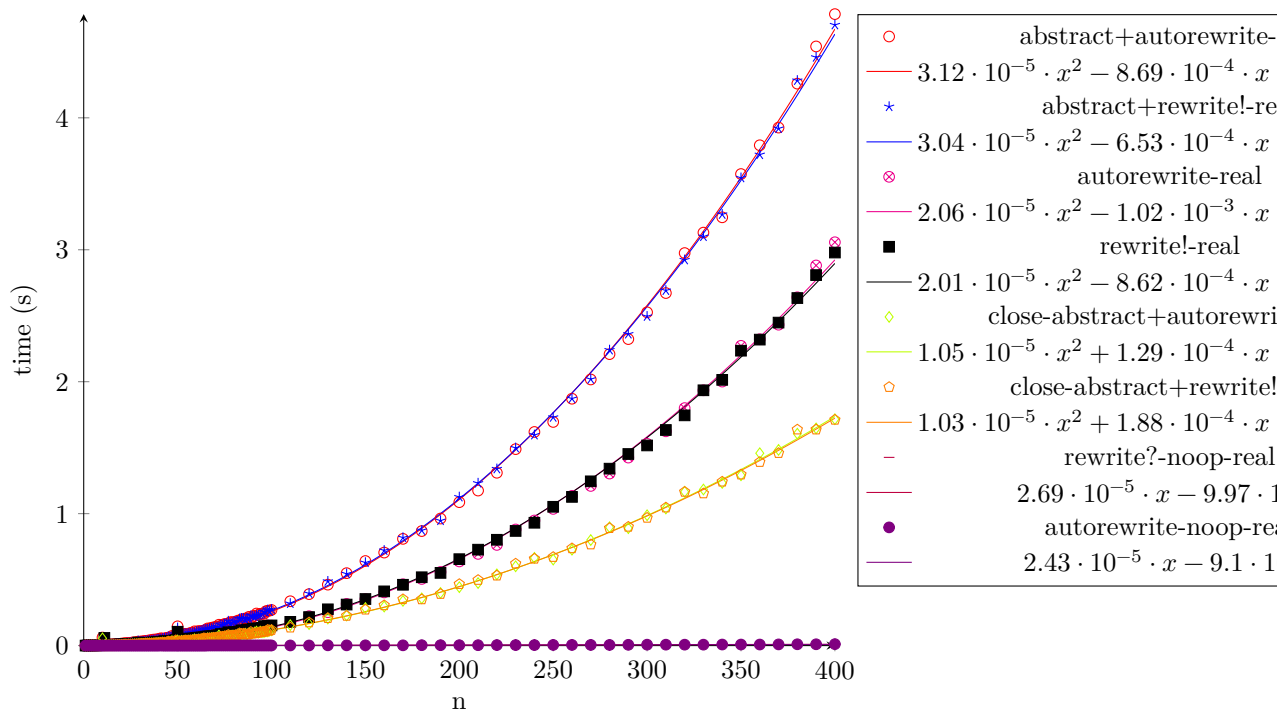
Figure 5: timing-rewrite-strat-under-binders
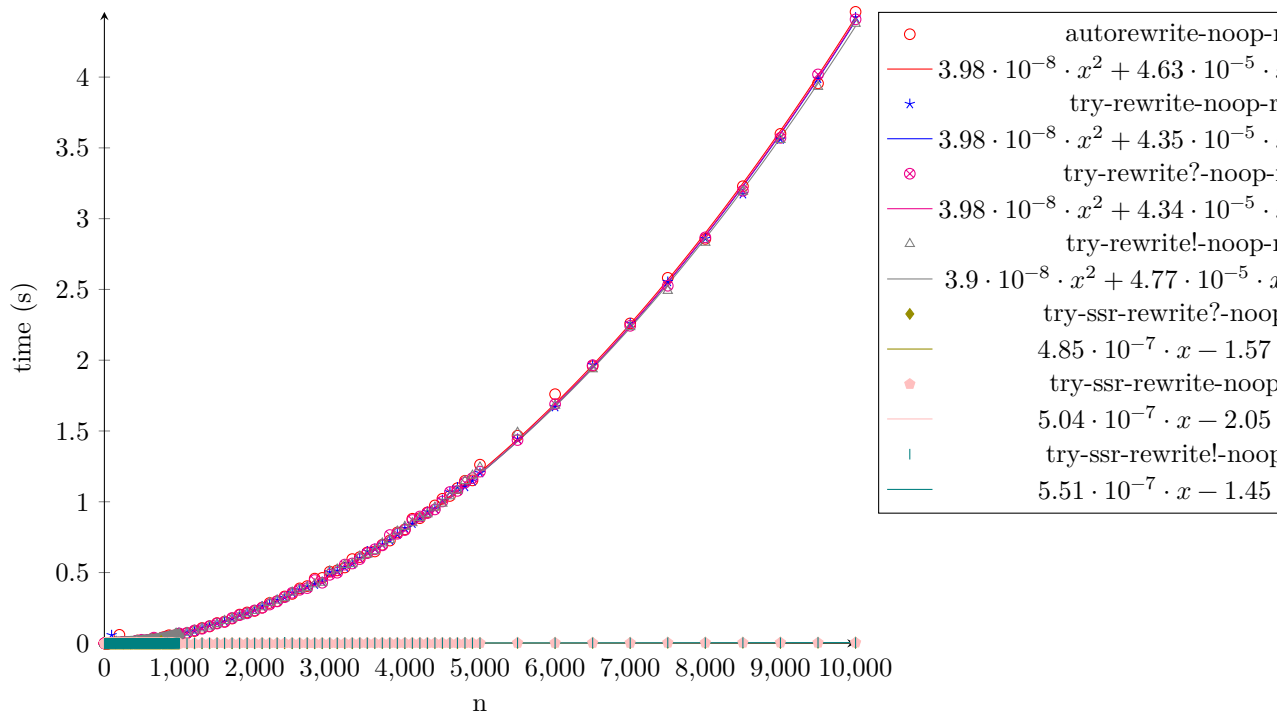
Figure 6: timing-rewrite-repeated-app-autorewrite

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

The legend of the figure contains the following entries:

- autorewrite-noop-r
- $3.98 \cdot 10^{-8} \cdot x^2 + 4.63 \cdot 10^{-5} \cdot$
- try-rewrite-noop-r
- $3.98 \cdot 10^{-8} \cdot x^2 + 4.35 \cdot 10^{-5} \cdot$
- try-rewrite?-noop-
- $3.98 \cdot 10^{-8} \cdot x^2 + 4.34 \cdot 10^{-5} \cdot$
- try-rewrite!-noop-
- $3.9 \cdot 10^{-8} \cdot x^2 + 4.77 \cdot 10^{-5} \cdot x$
- try-ssr-rewrite?-noop
- $4.85 \cdot 10^{-7} \cdot x - 1.57$
- try-ssr-rewrite-noop
- $5.04 \cdot 10^{-7} \cdot x - 2.05$
- try-ssr-rewrite!-noop
- $5.51 \cdot 10^{-7} \cdot x - 1.45$

The horizontal axis is labeled n and the vertical axis is labeled time (s).
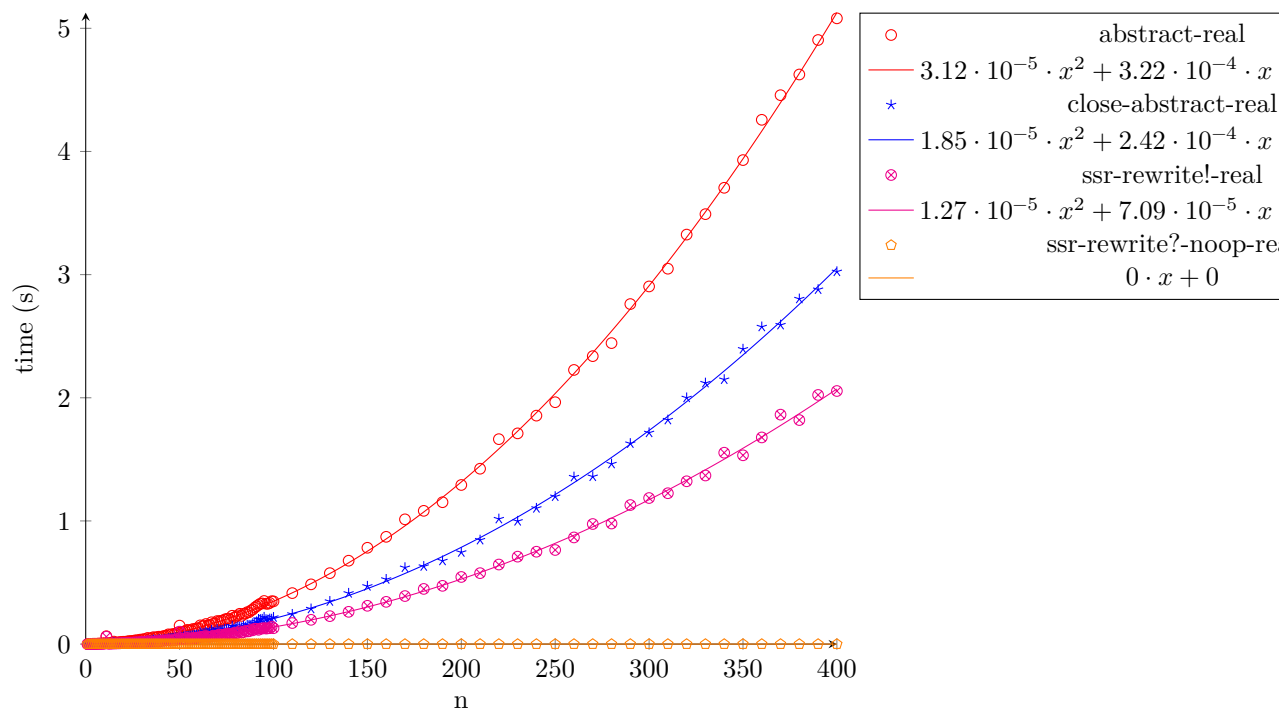
7

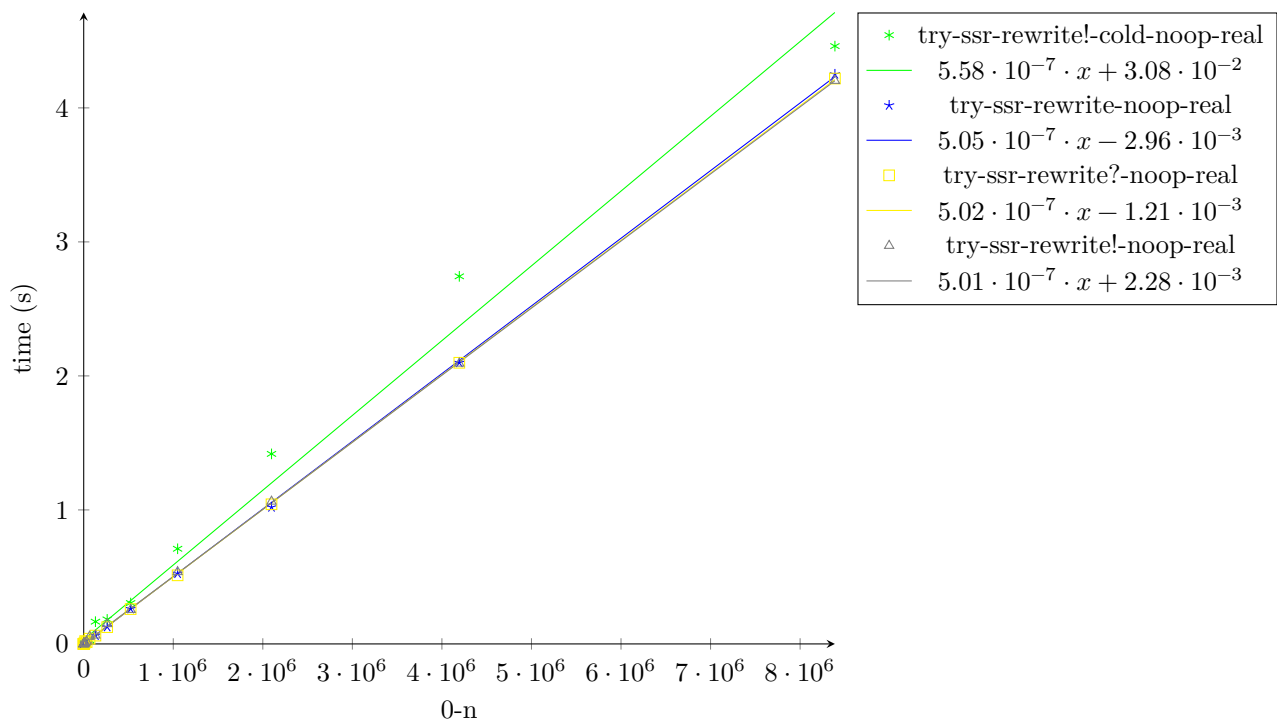Figure 8: timing-rewrite-repeated-app-ssrrewrite

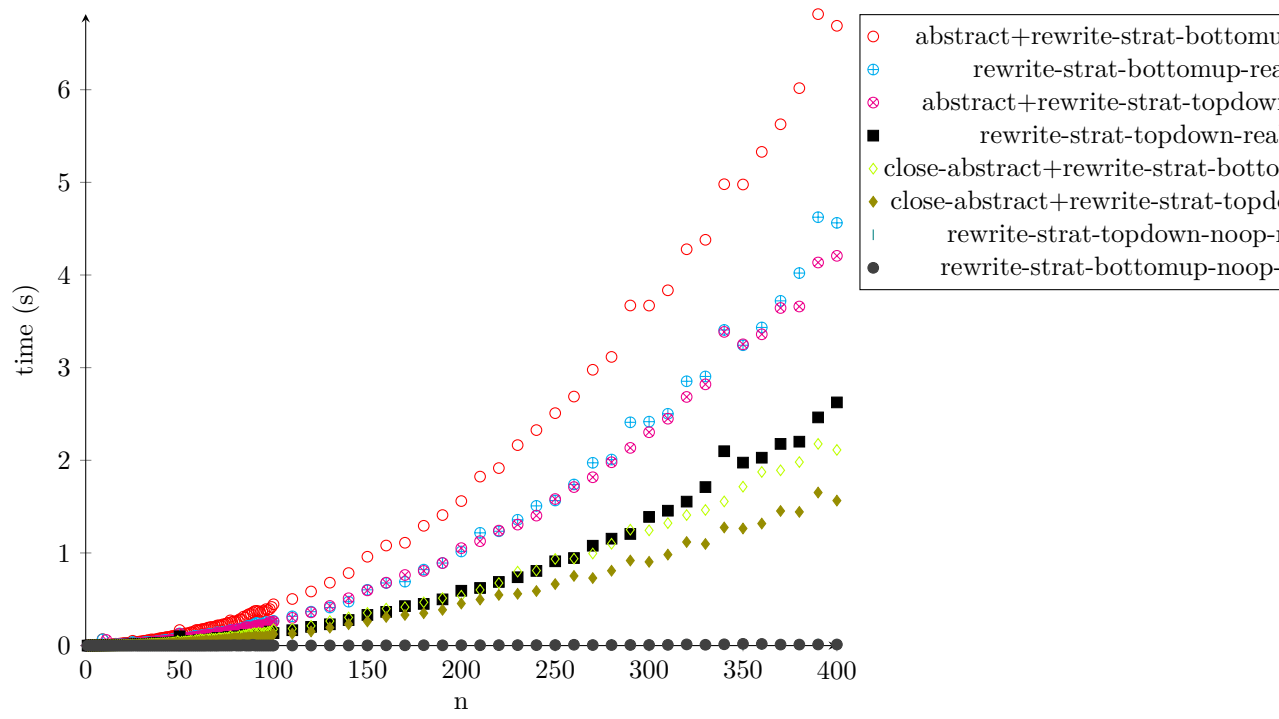Figure 9: timing-rewrite-repeated-app-ssrrewrite-noop param-1-lgn 1

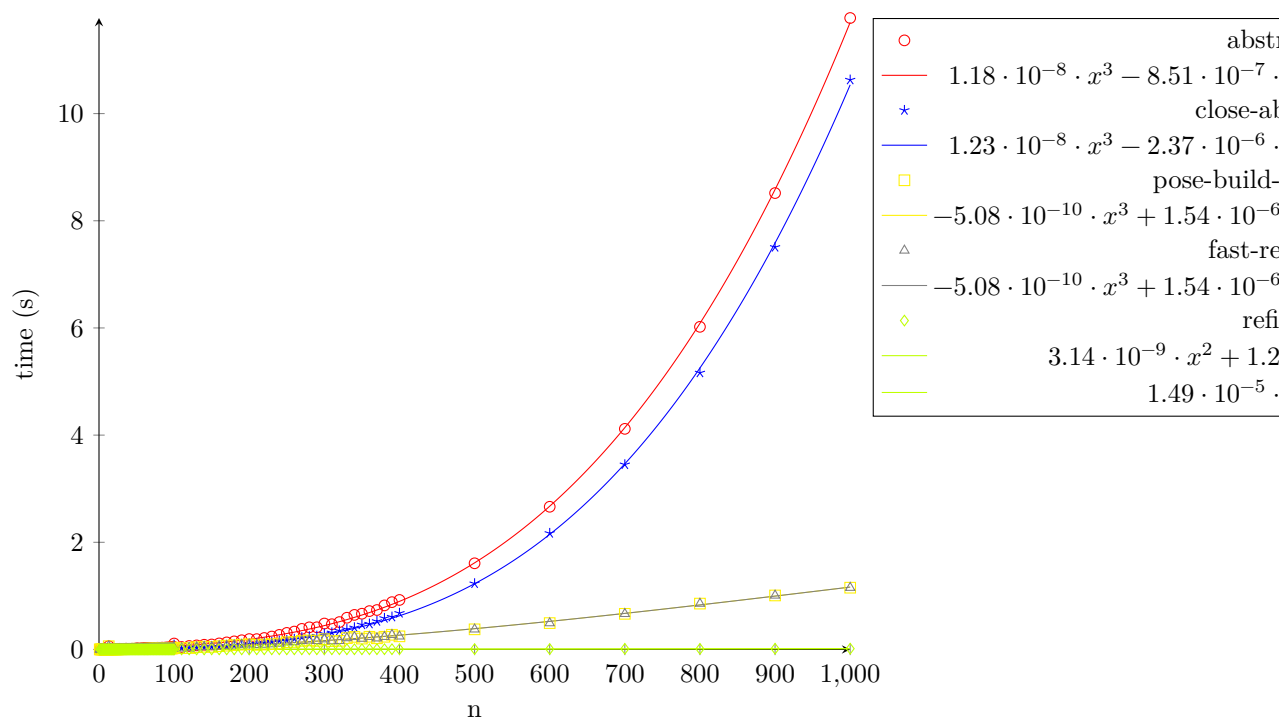Figure 10: timing-rewrite-repeated-app-rewrite-strat

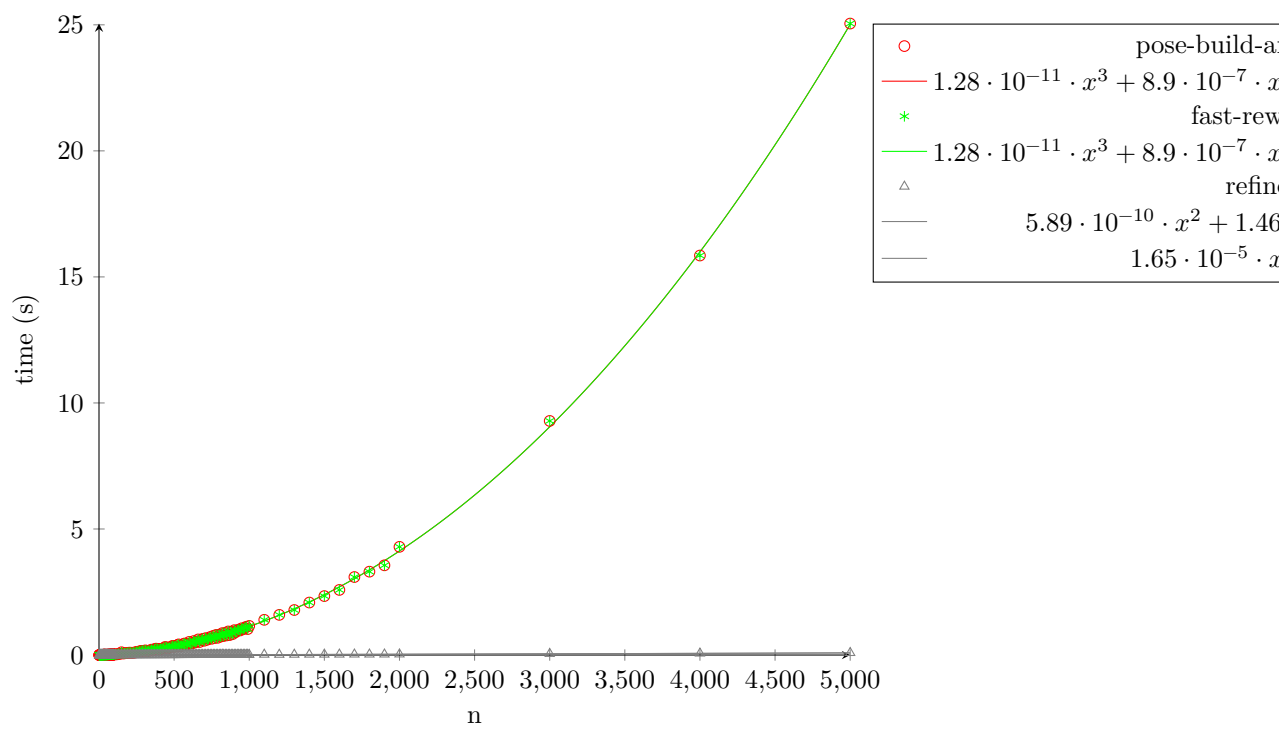Figure 11: timing-rewrite-repeated-app-fast-rewrite

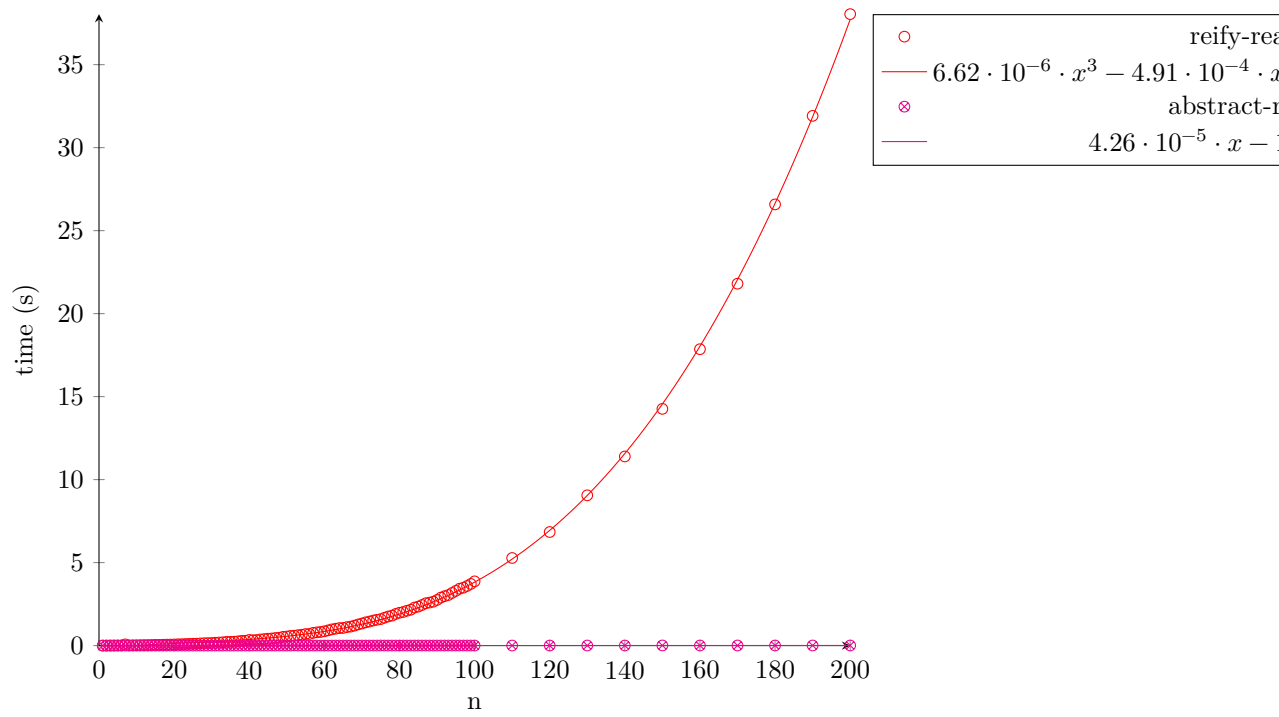Figure 12: timing-rewrite-repeated-app-fast-rewrite-no-abstract
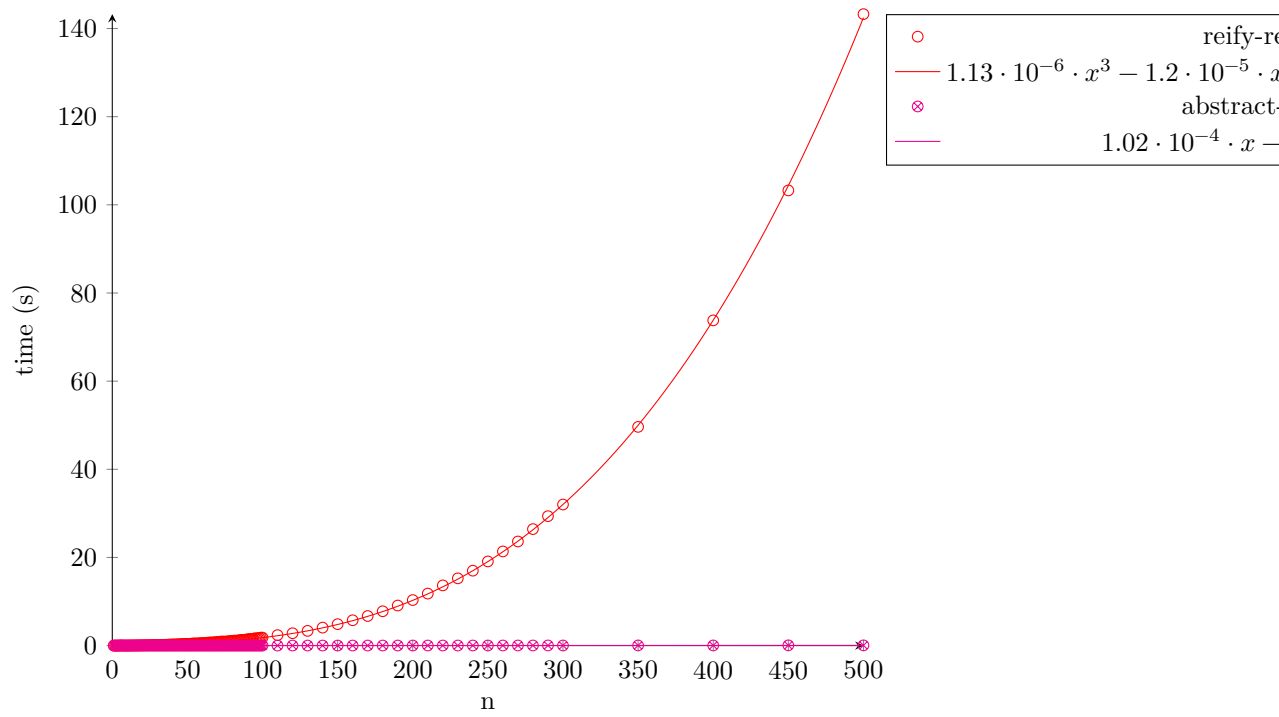
Figure 13: timing-typeclass-reification-let-in-HOAS
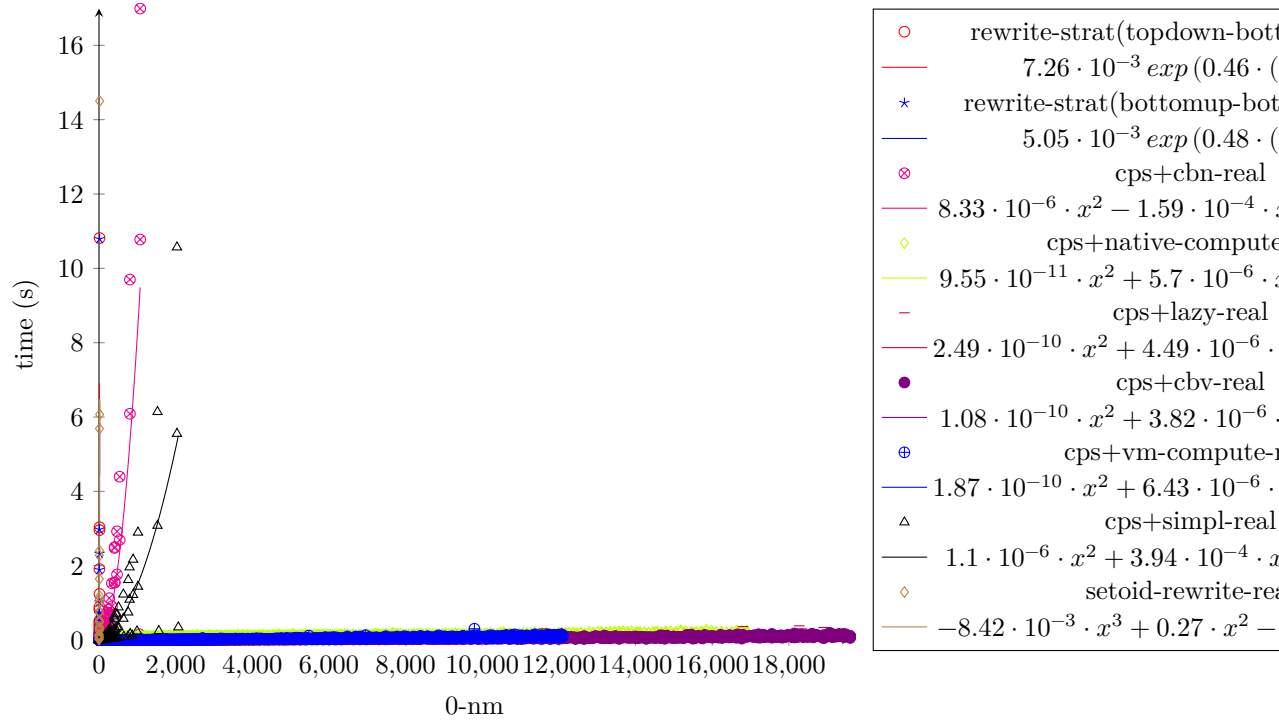
Figure 14: timing-typeclass-reification-let-in-PHOAS

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

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The figure shows a scatter plot with the y-axis labeled "time (s)" ranging from 0 to about 11, and the x-axis labeled "0-nm" ranging from 0 to 1,200.

Legend entries (partially cut off):
- setoid-r... : $1.26 \cdot 10^{-9} \cdot x^3 + 4.34 \cdot 10^{-6} \cdot$
- ssr-rew... : $3.17 \cdot 10^{-9} \cdot x^3 + 3.8 \cdot 10^{-7} \cdot$
- rewr... : $4.65 \cdot 10^{-9} \cdot x^3 - 4.59 \cdot 10^{-6} \cdot$
- rewrite-strat... : $-4.67 \cdot 10^{-8} \cdot x^3 + 2.51 \cdot 10^{-5}$
- rewrite-strat... : $-4.21 \cdot 10^{-9} \cdot x^3 + 7.74 \cdot 10^{-6}$
- autore... : $-4.07 \cdot 10^{-9} \cdot x^3 + 6.91 \cdot 10^{-6}$
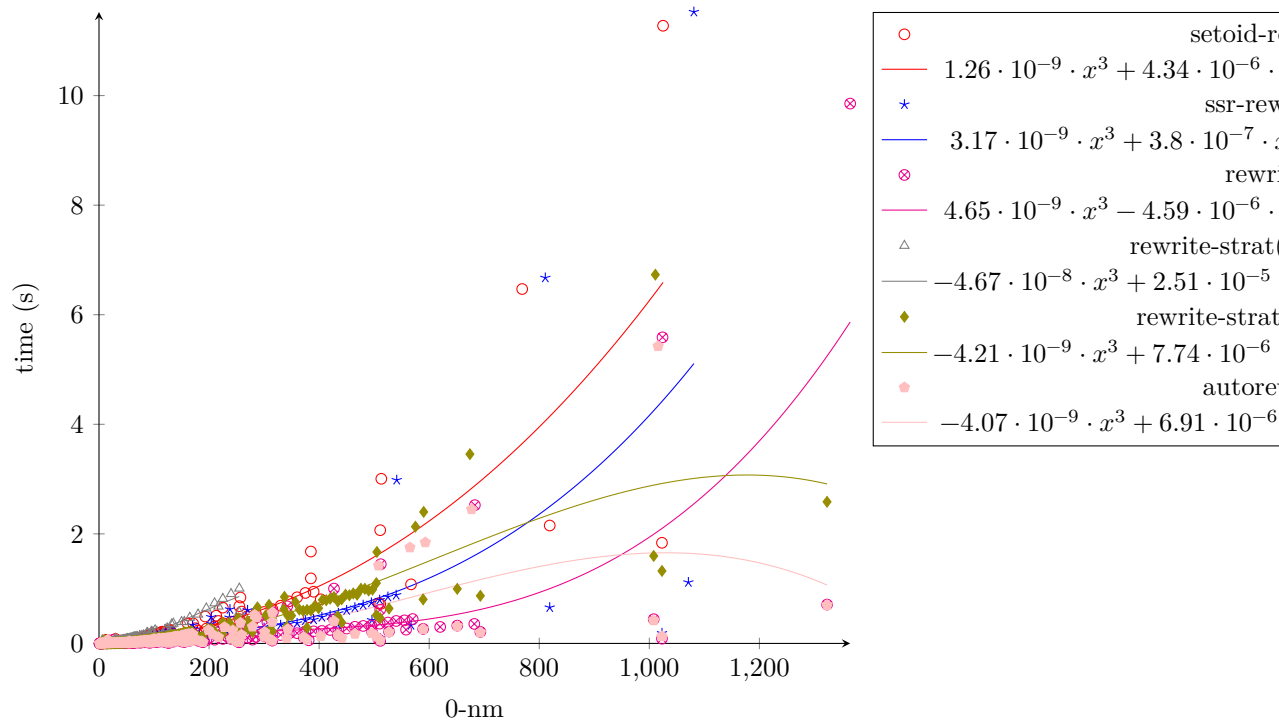
Figure 16: timing-rewrite-plus-0-tree param-1-n   0, param-2-m   1, param-3-input-size 5, param-4-output-size 3, param-5-num-rewrites 1
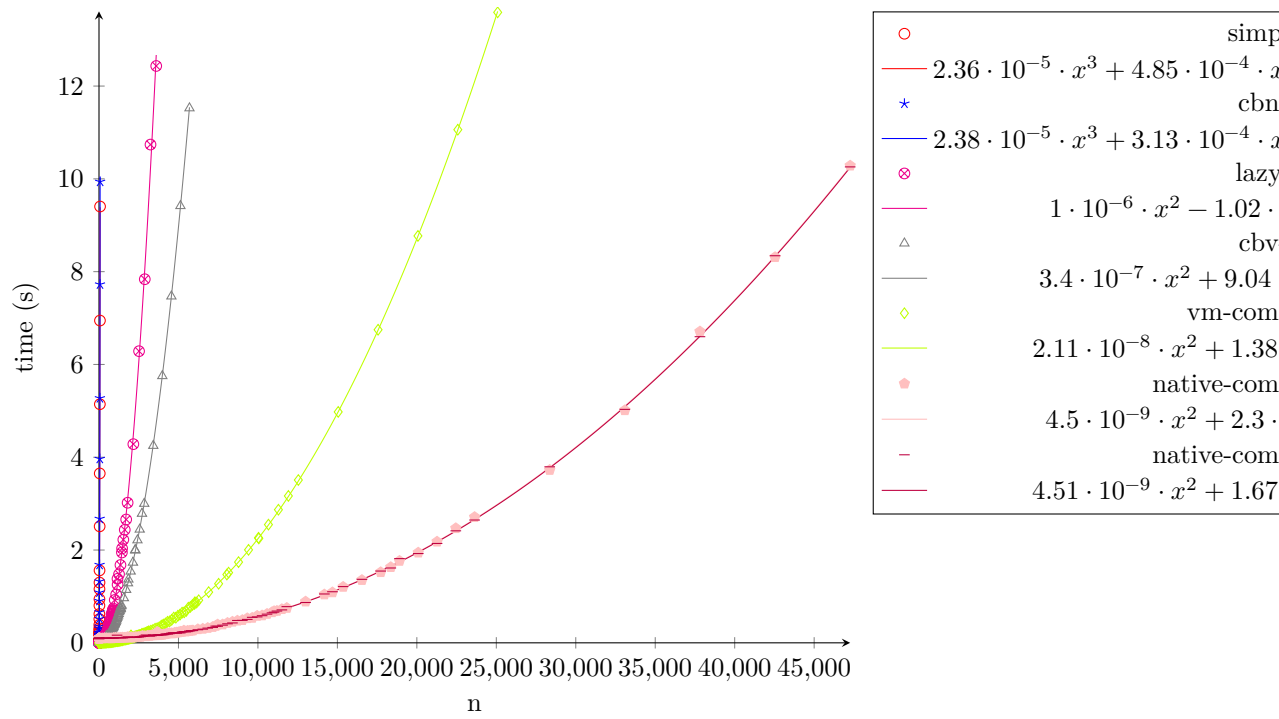
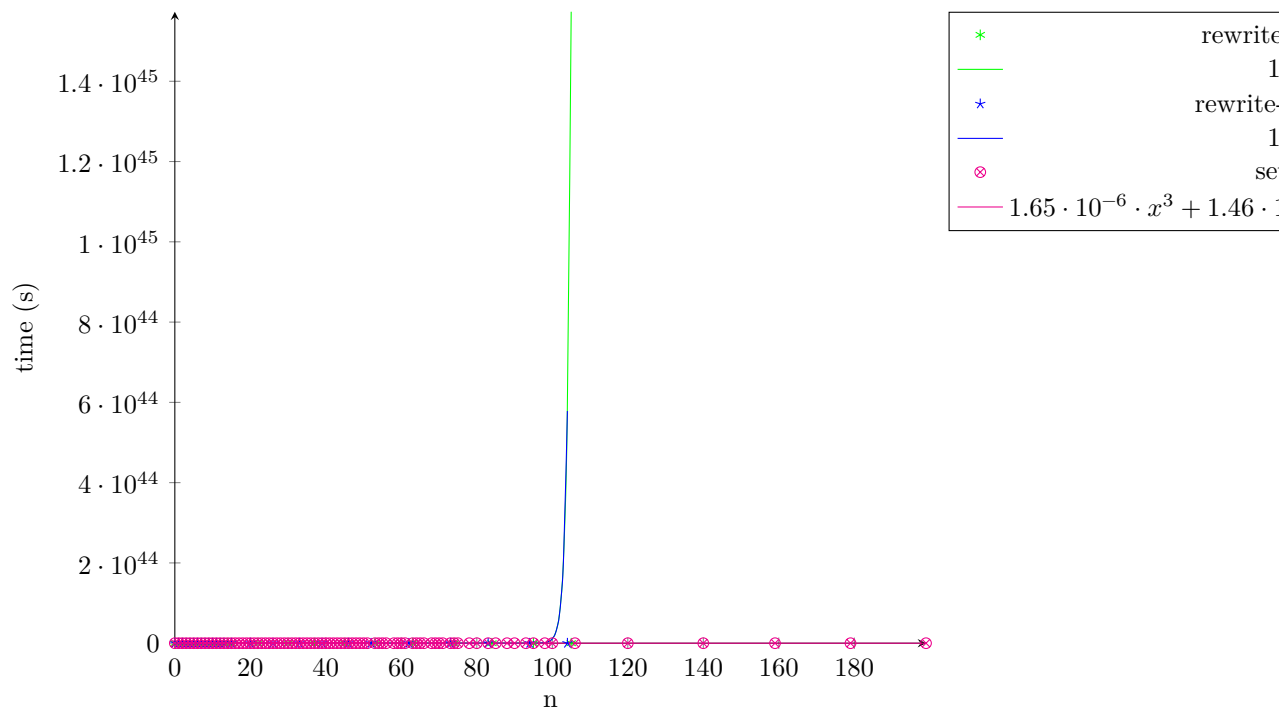Figure 17: timing-sieve-of-eratosthenes
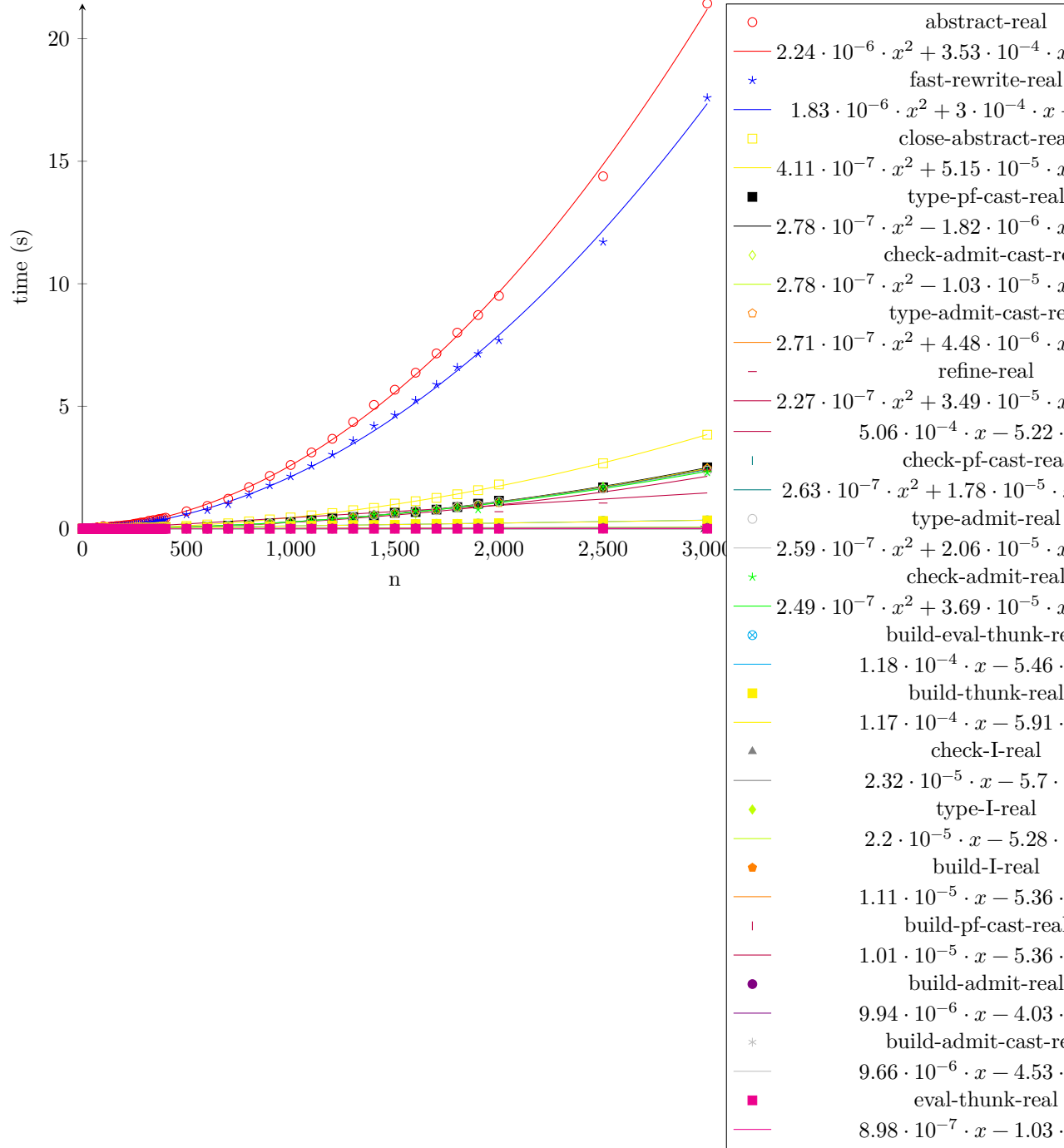
Figure 18: timing-rewrite-under-lets-plus-0

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